User's Manual

Tyre Pressure Monitoring System Tyredog TD2000-X-4 (autonomous)

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AUTOMOBILE

TYREDOG™

WIRLESS TIRE PRESSURE MONITORING SYSTEM

TD2000A-X V 1.7

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IMPORTANT INFORMATION

- This product is designed to indicate the conditions of the air inside your vehicle's tyres. It should not be considered as a device that will prevent any traffic accident, injury or death.
- Tyres and valve stems must be checked before installation. It is very common for rubber valve stems to require replacement without showing signs of wear.
- Never overload your vehicle. Overloading is extremely dangerous and can cause failure of tyres, suspension and driveline components. A vehicle should never be operated if the GVM is greater than the design specification. Even a correctly inflated tyre can fail when overloaded.
- It is the driver's responsibility to ensure safe driving conditions are met before setting off on any trip or journey.

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TPMS Advantages

A Tyre Pressure Monitoring System (TPMS) is an efficient and effective solution to many current automotive safety issues. TPMS will help minimize driving risks and reduce fuel consumption. Some benefits include:

- Ensures safe driving conditions.

  Tyre pressures can alter ride comfort and handling response.
- Minimises chances of tyre blowout.

  Blowouts are a growing cause of road accidents. Even if a car can recover from a blowout, the damaged tyre left behind is an even greater hazard.
- Reduces time taken to inspect tyres.

  It can be very time consuming to walk around large vehicles to inspect each tyre. A TPMS will help pinpoint a faulty tyre to save time. Everybody from driving enthusiasts, to small business owners, even nation-wide fleet operators can benefit from the time saved by a TPMS.
- Reduces running costs.

  A properly inflated tyre ensures maximum fuel efficiency in all driving conditions. When a tyre is underinflated, it causes more rolling resistance, significantly increasing fuel consumption, engine and transmission wear.
- Extends tyre life

  Tyres can be an expensive necessity especially in trucks or sports cars. An underinflated tyre wears quicker meaning it needs replacing sooner.

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Exclusive Features

TYREDOG is a powerful tool for maximizing uptime and improving safety. TYREDOG sets a new standard in wireless tyre pressure monitoring systems.

A leading WTPMS solution for the light to heavy-duty car and trucking industries, TYREDOG is continuously developing new and better TPMS designs and manufacturing technologies. TYREDOG has helped major players in the trucking industry improve safety and reduce operational costs. The major feature of TYREDOG TPMS is the use of the world's smallest valve cap sensor. The extremely lightweight, compact sensor has been designed to simplify installation and remove the need to have wheels balanced when fitted. Through wireless technology, tyre pressure and temperature information is displayed on the friendly Graphic User Interface (LCD monitor).

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Installation

- **D.I.Y:** System can be fitted quickly without any technical knowledge.
- **Wireless:** All signals are sent via radio frequency with no wires.
- **Battery powered:** Sensors, monitor and relay are battery powered. Monitor and relay can be operated with supplied power cables.
- **Security:** All kits include the SecureFit locking mechanism meaning your sensors will not come loose unexpectedly.
- **Relay:** Increases the signal transmission range, meaning tyres can be monitored on the largest and most complex vehicles.

Operation

- **Real-time:** Tyre pressures are updated automatically so there is no need to push buttons to check up on your tyres (except temperature).
- **Graphical user interface (GUI):** All information is displayed together so unlike other systems, there is no need to scroll through each wheel to view status.
- **Adjustable:** High and low warning alarms can be set ‘per axle.’
- **Audible:** You can’t be expected to always keep watch of your tyres, so a built in alarm will sound when there is a sudden change in pressure or temperature, giving you peace of mind.

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Design

- All sensors can be securely locked onto tyre valves for added safety.
- Learnable sensors are available so in the event of theft or damage, sensors can be quickly and easily replaced.
- Sensors have unique individual codes to ensure there is no interference from other 433MHz devices, even other TYREDOG systems.
- All TYREDOG kits undergo strict field testing to ensure quality.
- The TD2000A-X can monitor tyres with pressures up to 180psi so all applications are supported.
- Sensors are treated for anti-corrosion during manufacture and use rubber seals to prevent liquid and fine particles from coming in contact with the circuitry.

Tyre Pressure & Safety Information.

- Please take the time to choose a suitable location so operation can be performed quickly and safely.
    - Be sure that the LCD monitor is firmly fixed to the windshield or dashboard using the supplied mounting hardware.
    - Please practice safe driving and only take the time necessary to read the information displayed on the screen.
- Ensure the sensors communicate with the LCD monitor before initially fitting them to your tyres to save time and hassle.
- Tyredog TPMS has a unique SecureFit mechanism to prevent sensors from coming loose. You can decide whether to install it or not.
- Regularly check if sensors are fitted tightly. If necessary, spread water with detergent on the valve stem to see if your valves are leaking.
- If a rapid deflation warning sounds, stop the car immediately to check the tyre for damage. Remember to be safe when pulling over.
- The monitor will automatically make connections when it is powered on. It is normal for some readings to freeze until sensor updates are received.
- All Tyredog sensors have their own unique codes and are designed to reject interference from other devices operating on the same frequency.
- Many factors can cause tyre pressure to rise and fall. For example, warm weather or long distance trips will lead to a rise in tyre pressure.
- It is normal for tyre pressure to decrease over long periods of time. Periodically re-inflate tyres especially if your car is not regularly driven.
- If you have any questions or problems concerning your unit that are not covered in this manual, please consult your nearest Tyredog dealer.

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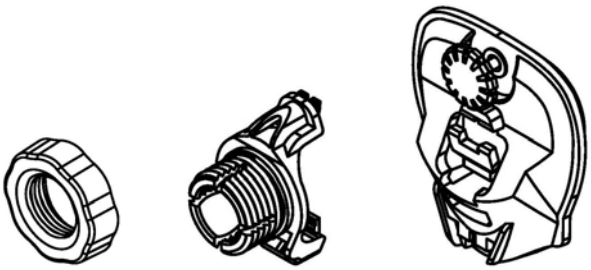
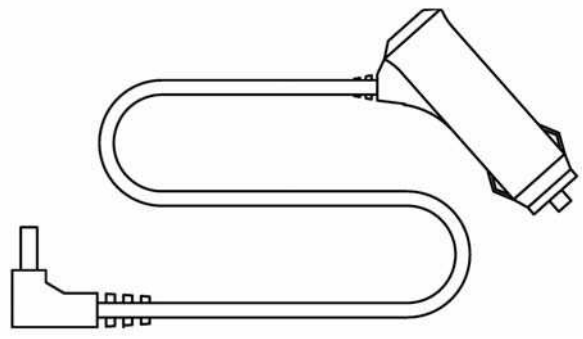
Package Contents / Parts Checklist

Item		QTY
Package # 1 - Monitor Kit		
LCD Monitor		ONE
User Guide		ONE
AA Battery (LR6)		TWO
Bracket Base		ONE
Monitor Bracket Bracket Adapter Ball Joint Ring		ONE SET
Cigarette adapter.		ONE

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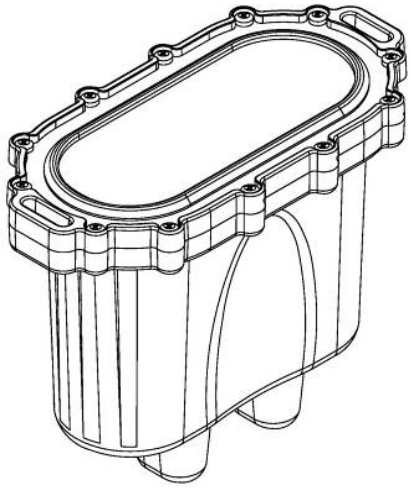
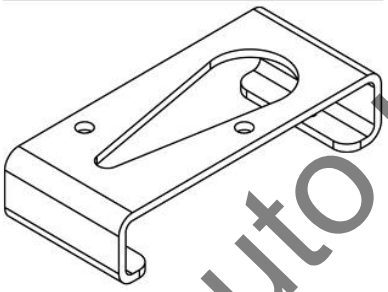
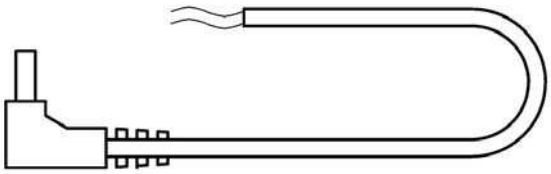
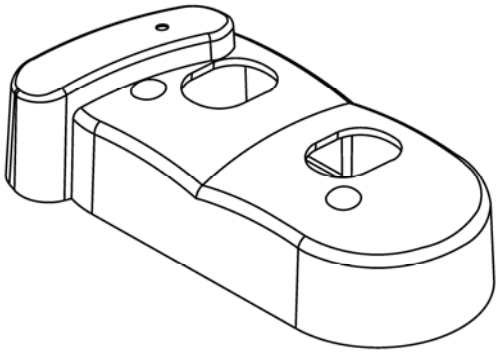
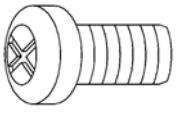
Package # 2 – Relay & Sensor Kit		
Relay		ONE
Relay Mounting Bracket		ONE
4mm Relay Bolt		TWO
AA Battery (LR6)		FOUR
Relay Power Cord		ONE
Relay Cover		ONE
3mm Cover Bolt		TWO

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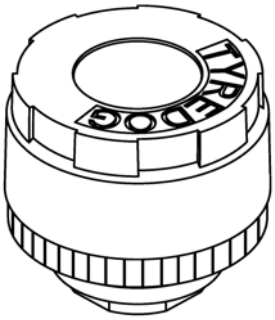
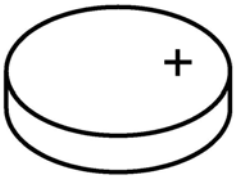
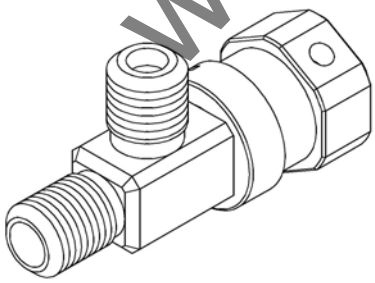
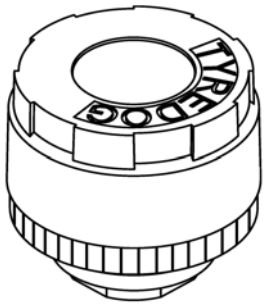
Tyredog Sensor		A-X04 – 4 pcs A-X06 – 6 pcs A-X08 – 8 pcs A-X10 – 10 pcs
CR1632 Lithium Battery		ONE PER SENSOR
SecureFit ring		ONE PER SENSOR
Hex screw		ONE PER SENSOR
Allen Key		ONE
Optional Parts/Accessories		
3-way adapter set supplied with fixing screws.		The 3-way adapter is sold individually and only available from an authorized TYREDOG re-seller. *(RECCOMMENDED ONLY FOR DEEP DISH OR TRUCK WHEELS)*
Replacement learnable sensor. *Must be ordered as specific wheel replacements only.*		Replacement sensors are sold individually and only available from an authorized TYREDOG re-seller. Supplied with SecureFit fixing ring.

If any parts are missing, damaged or defective, please contact the place of purchase immediately.

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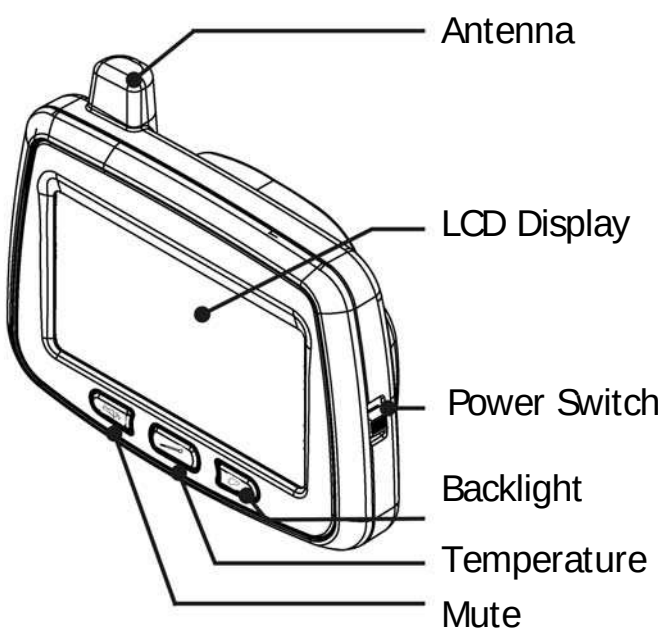
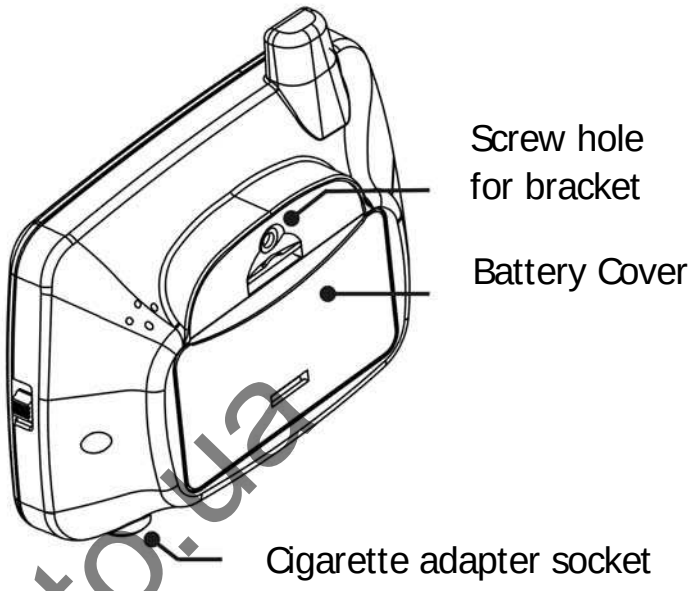
System Components

Monitor



Front of Monitor



Back of Monitor

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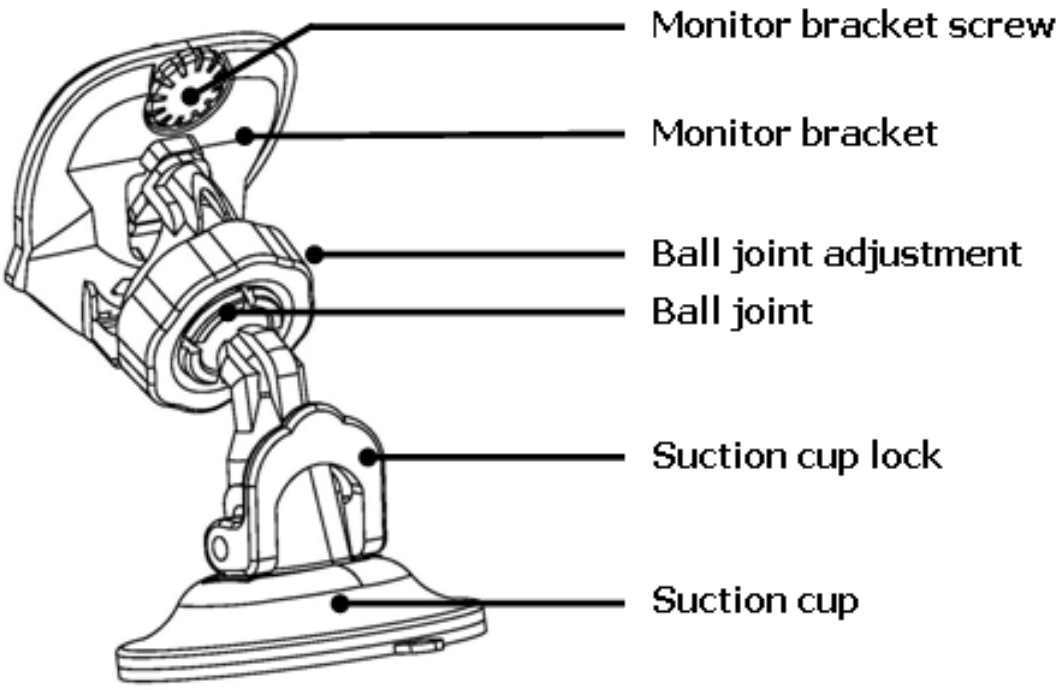
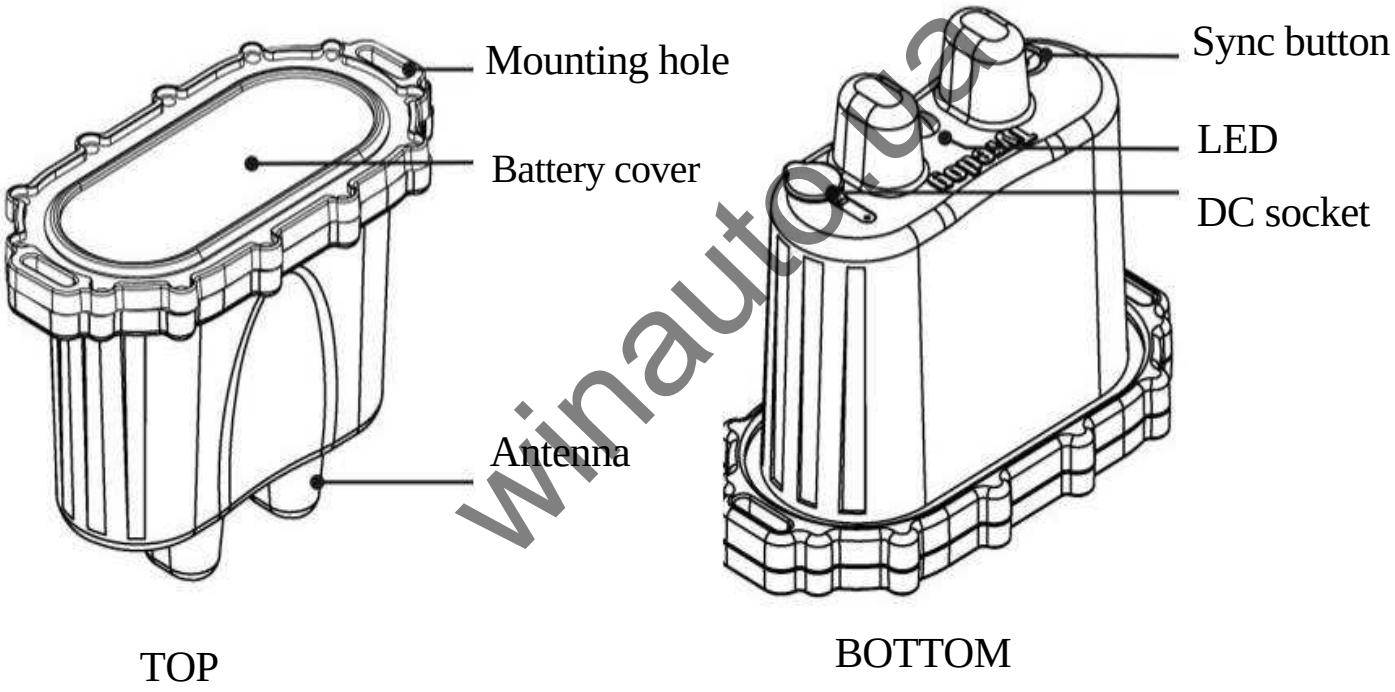
Mounting Bracket



Relay

The relay is the main link between the sensors and the monitor. Without it, the system will not function. It is recommended the relay be mounted in a central location with considerably even distance between the furthest forward and furthest rearward sensors.



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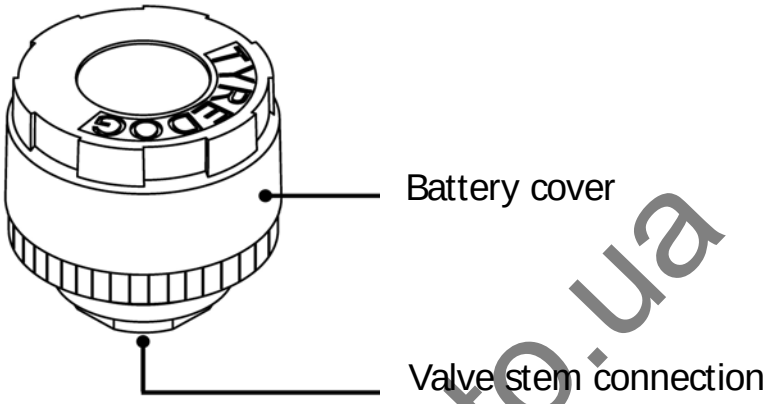
TIP:

It is important to remember that sensors connect to the relay they are assigned to. If the relay is removed from the vehicle, the system will not function. This is vital in car/trailer situations when the trailer is often unhitched from the car. The relay should be mounted at the rear of the vehicle in this case to ensure optimum performance.

Tyredog Sensor

The sensor has two sections: The sensor cap and sensor body. Its lightweight design and external application is intended to aid the user to install tyre pressure system at home without any technical knowledge or assistance.



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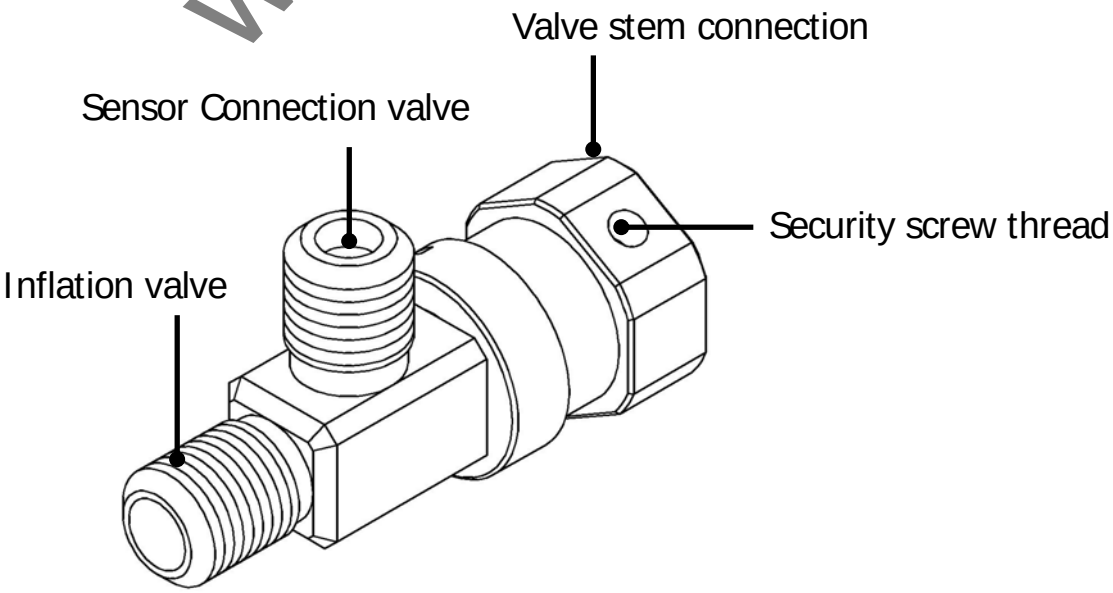
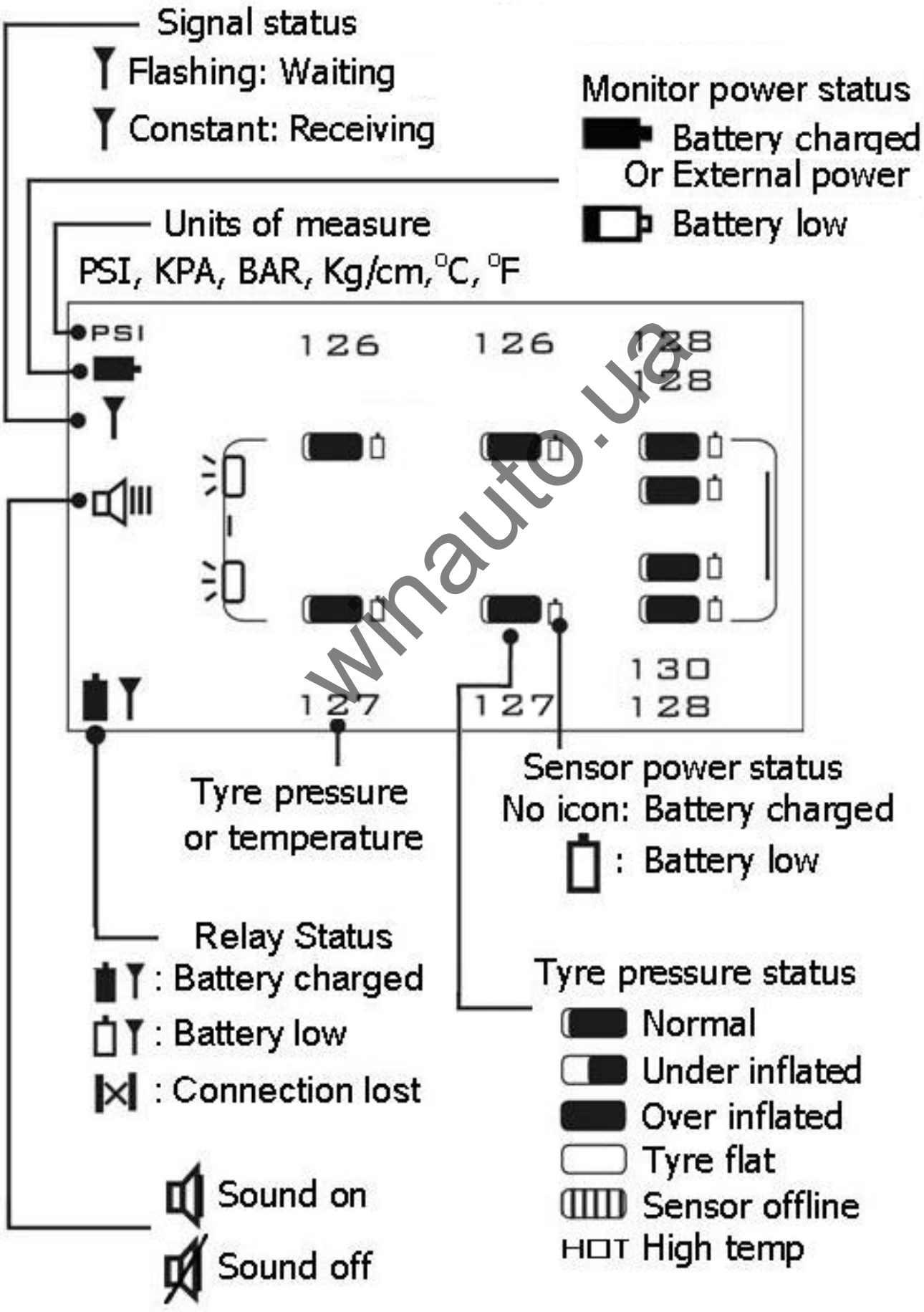
3-way adapter



The 3-way adapter is an optional accessory and must be purchased separately.

(RECCOMMENDED ONLY FOR DEEP DISH OR TRUCK WHEELS)

GUI Layout



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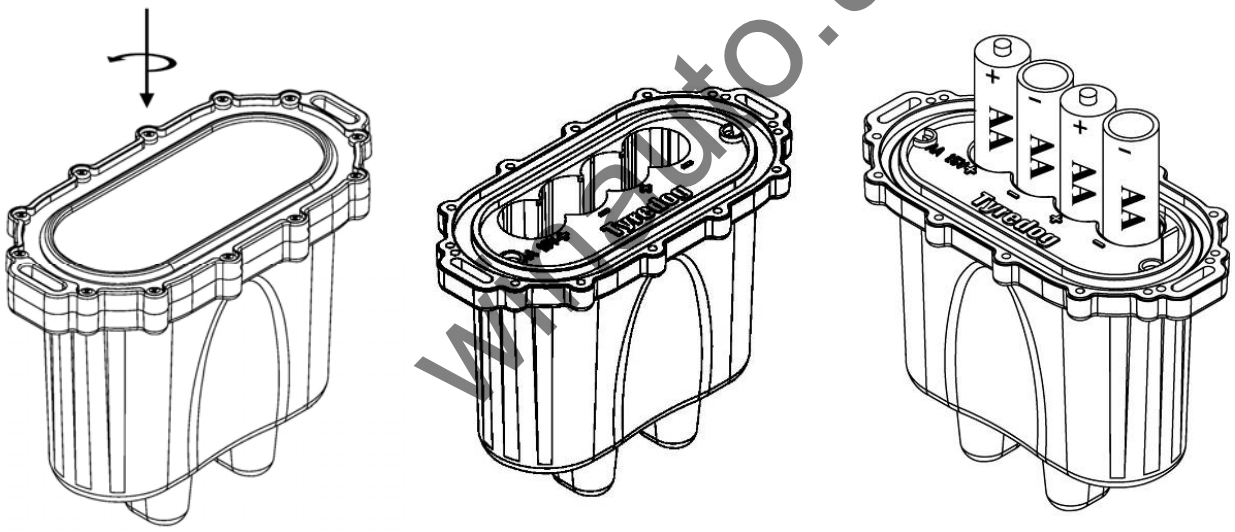
Installation

RELAY

The relay can be powered by the supplied AA batteries, or the power cable.

Permanent 12v is required for correct functionality of the relay.

You must ensure the relay is NOT connected to a switched power source such as accessories or ignition, as this will cause synchronization issues with the monitor when powered up.



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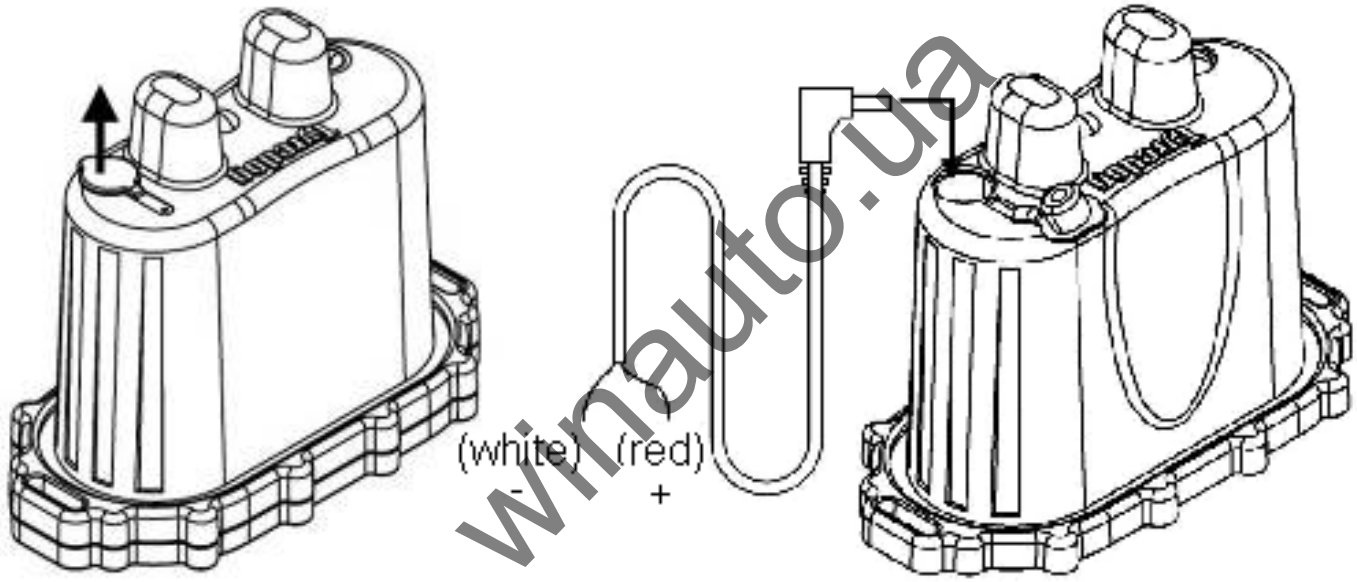
To open the battery cover, undo the 12 Philips head screws. Insert the supplied AA batteries into the battery slot observing the polarity markings. When refitting the battery cover, be sure to line up the contact springs correctly and ensure they are not bent upon contact. If the cover is placed correctly, the LED will illuminate for a few seconds to confirm the Relay is booting up. Replace the 12 screws removed previously and ensure the rubber o-ring is properly seated prior to tightening.

If using the included power cord, remove the DC socket plug at the bottom of the relay. (If not using the power cord, ensure the socket plug remains fitted as it seals the Relay from water etc.) When plugging in the DC plug, ensure it is plugged in firmly and will not come loose. When inserted correctly, it will be sealed from water and other elements. When using the power cord, the supplied bottom cover can be fitted to ensure the plug does not come loose.



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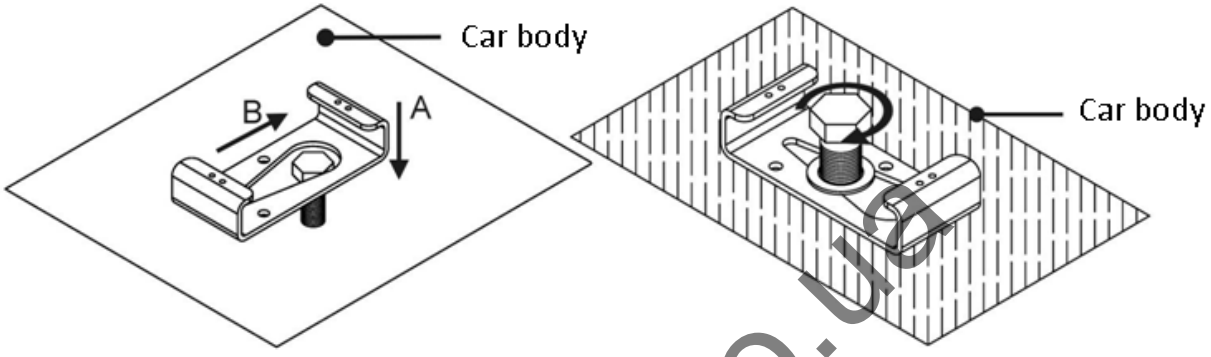
When fitting the Relay, time and care must be taken to properly decide on a mounting location. Some key factors that must be considered are:

- Total distance between first and last sensors.
- Total distance of car, truck, car + trailer etc.
- Vehicle/trailer structure (chassis/body density etc)

Please remember that any metal between the sensors/relay/monitor will play a part in limiting the signal transmission between Tyredog components. Although a metal object may not be in the direct line of sight between the components, it may still hinder signal transfer if the object is nearby or offside to the signal transmission path.

When mounting the Relay, be sure that it is mounted away from moving parts, (tail shaft, axle, etc.) sources of heat (exhaust) and is fitted in such a place that would keep it protected from potentially damaging terrain.

The Relay can be mounted using the supplied heavy duty bracket, or on its own using the mounting holes at the top of the unit.



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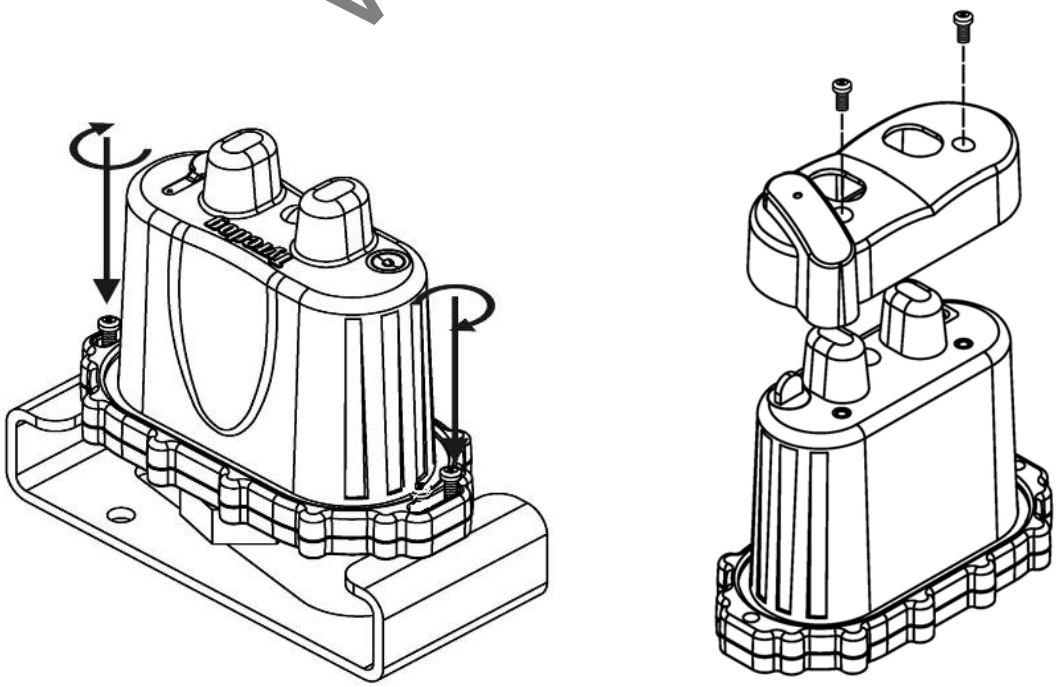
Once the bracket is firmly mounted to the car body, the relay can be mounted to the bracket with the supplied bolts and washers. Using a Phillips head screwdriver, tighten the bolts ensuring they are not over tightened.

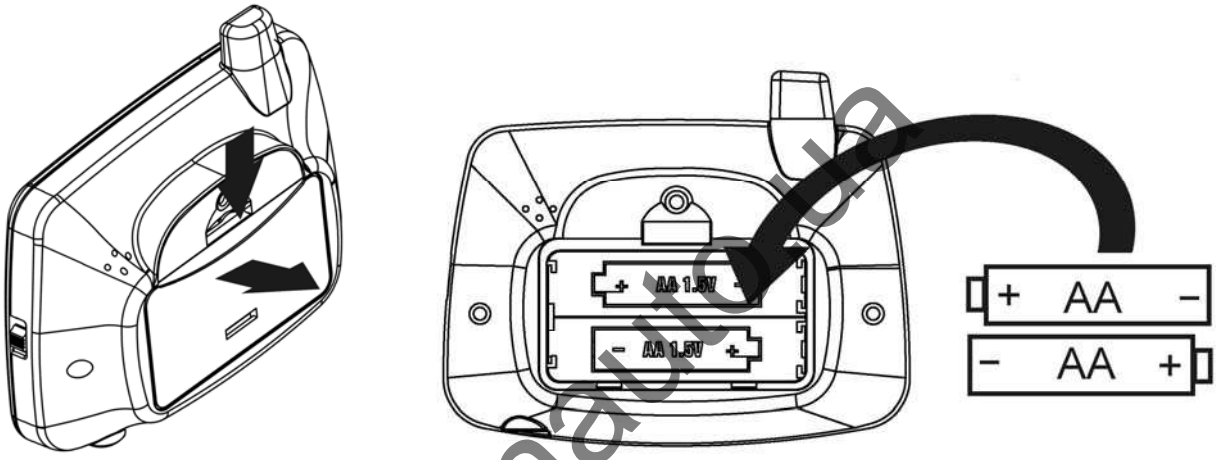


If using the power cord, use the optional Relay Cover and 3mm bolts (supplied) to prevent the plug from coming out of the socket or being damaged.

MONITOR

The LCD monitor can be powered by 2x AA batteries, or your car's power using the supplied cigarette lighter adapter. Please follow the steps below outlining how to install batteries into the monitor and sensors and powering up the system for the first time.

To install batteries, push the lever down as shown and open the cover.



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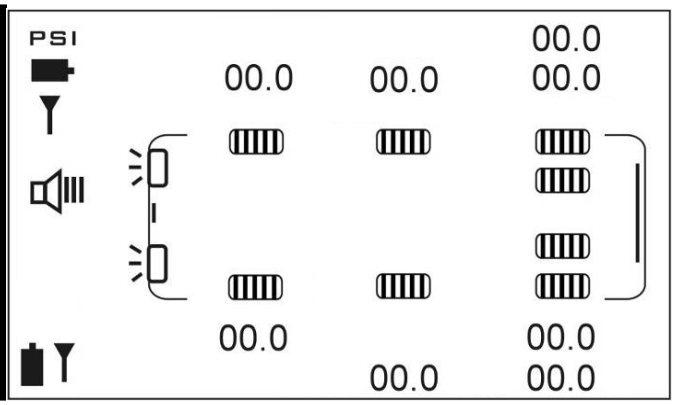
Insert the negative end of the battery onto to the spring side of the battery holder and push the other end in until it locks in place. Be sure the battery polarity is correct and replace the cover. When the monitor is powered up, the boot up screen will be displayed for 3 seconds, then the home screen.

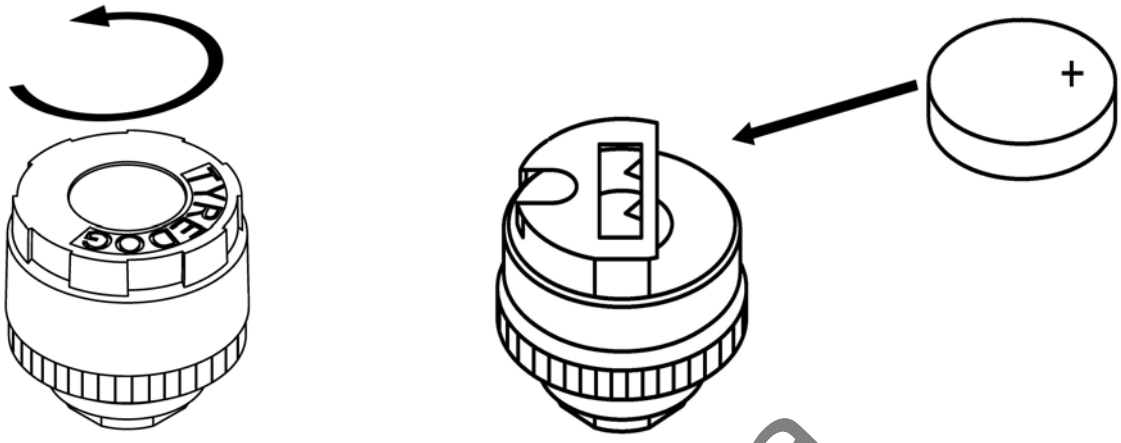
BOOT UP SCREEN



HOME SCREEN

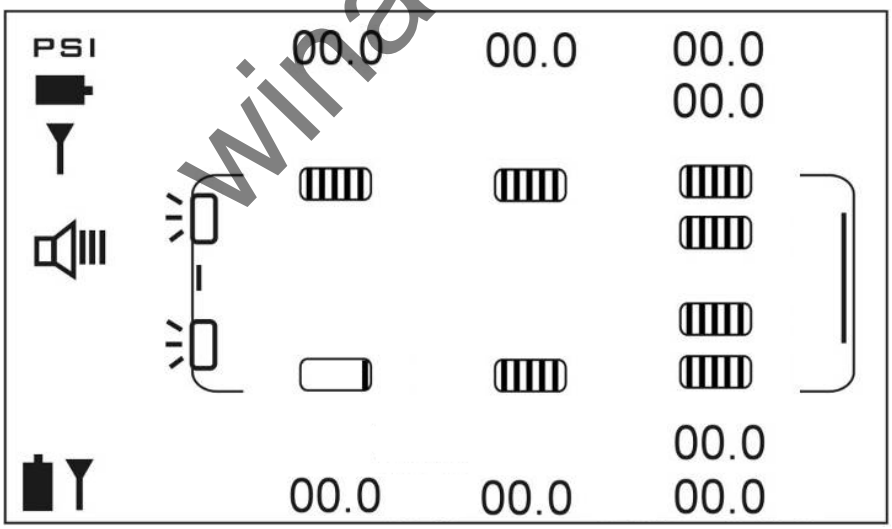
SENSORS

1. Remove the sensor cap and insert the battery like shown.



The LCD monitor will beep, and the corresponding value for that sensor blink and show ’00.0’.

2. Replace the battery cover and ensure it is screwed on tight.



EG: Sensor # 1 is online, but not fitted.

This is indicating that the sensor is online, but not yet mounted. Repeat this process with the remaining sensors until all sensors are online. If any sensors fail to come online, please try a battery from another sensor, or consult your nearest Tyredog dealer. Once all sensors are online, proceed to fitting the sensors to your tyre valves.

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Visually inspect your tyre's valves for any damage or defect before fitting to ensure further damage does not occur. If you do notice that something is not right with your valves, have them checked by a tyre professional.

1. After removing the original valve caps, slide the SecureFit fixing ring over the valve stem with the flat surface towards the wheel.
2. Screw the Tyredog sensor on in a clockwise direction until you feel the valve stem come under pressure.
3. Slide the SecureFit fixing ring back up to the base of the sensor and line up the grooves. Once locked into place, tighten the hex screw with the supplied Allen key.

If you do not wish to use the SecureFit fixing ring, only follow step 2.

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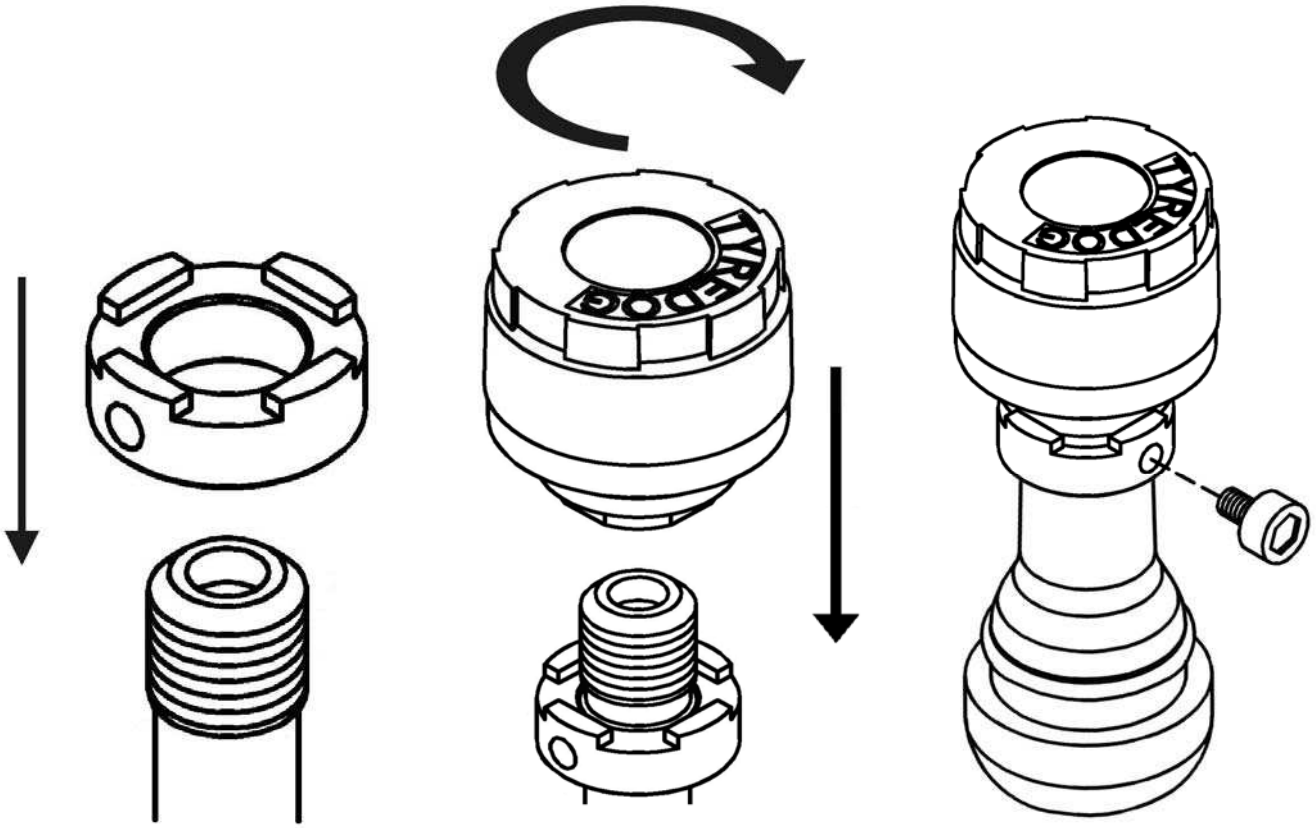
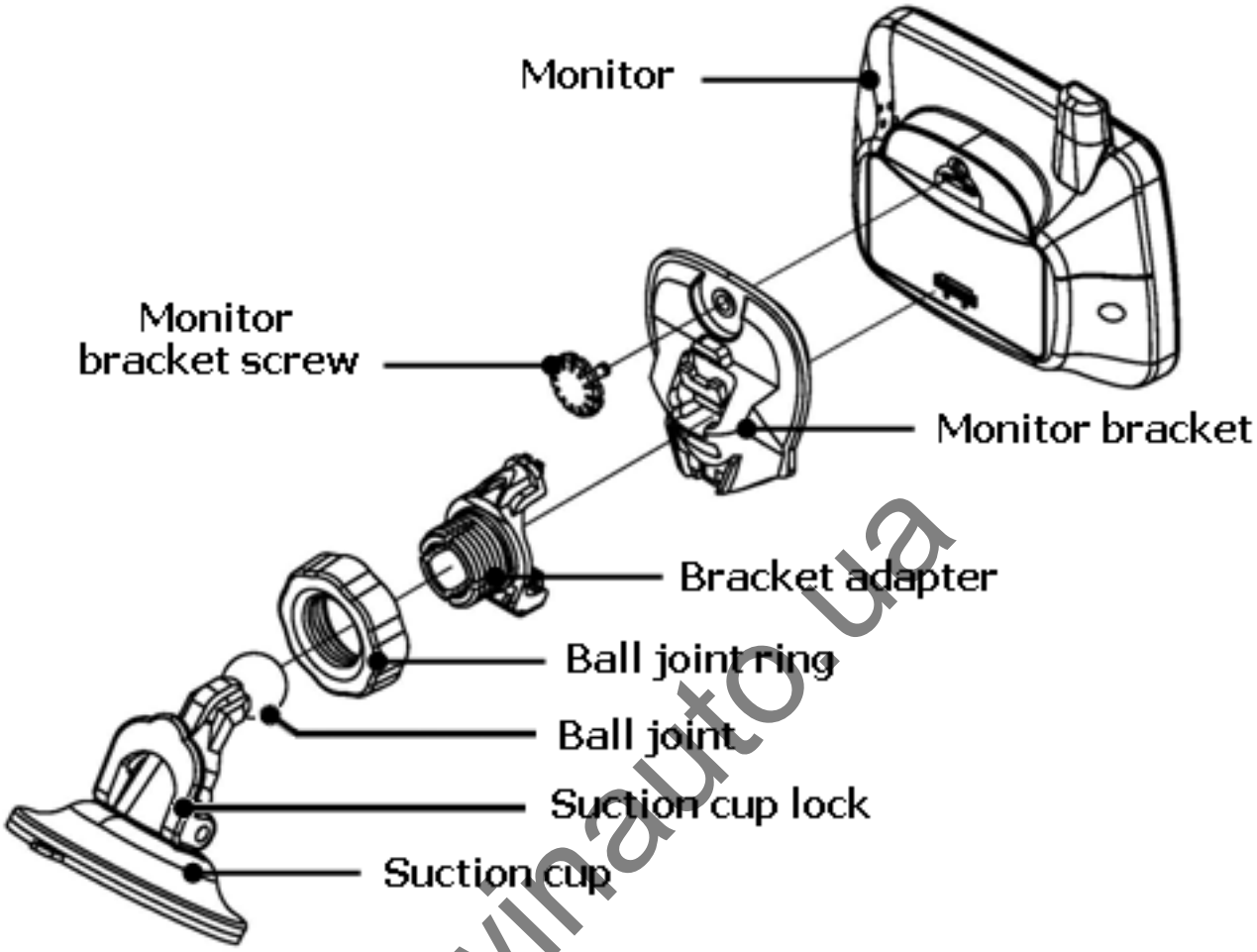


MOUNTING BRACKET



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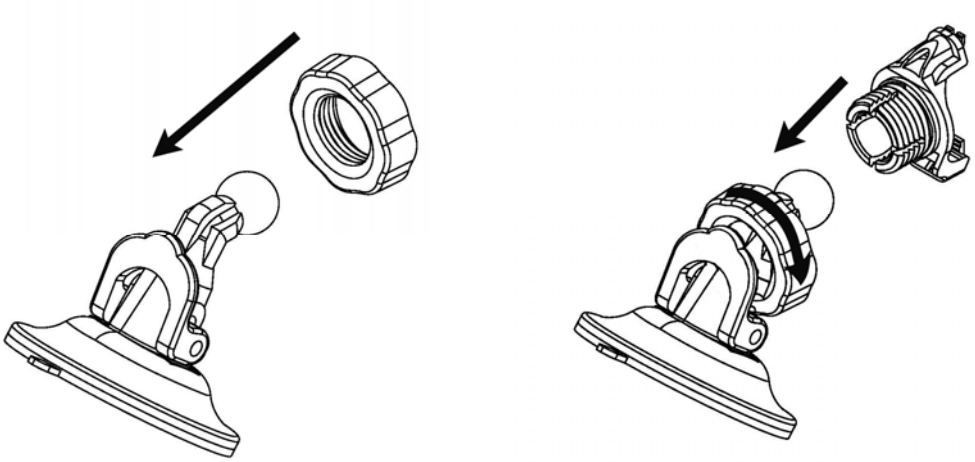
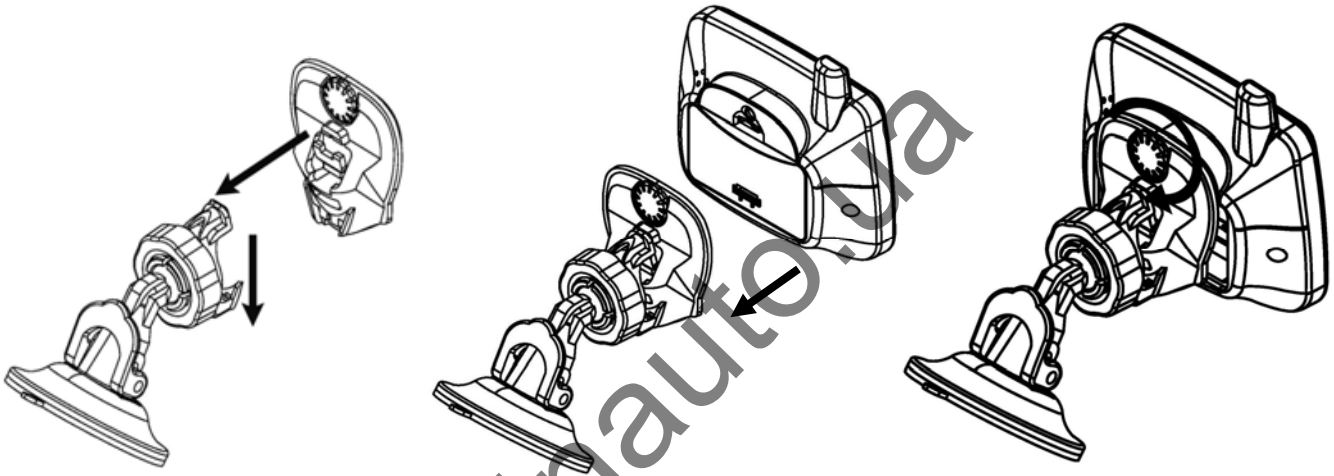
1. Slide the threaded Ball Joint Ring over the ball joint

2. Insert the Ball Joint into the Bracket Adapter until it ‘pops in’

3. Screw the Ball Joint Ring onto the Bracket Adapter until hand tight.



4. Place the Monitor Bracket into the Bracket Adapter clips
5. Using gentle force, push the Monitor Bracket against the adapter clips and slide down until the Monitor Bracket locks in place.
6. Hook the Monitor Bracket onto the Monitor, line up the Monitor Screw and turn until tight.



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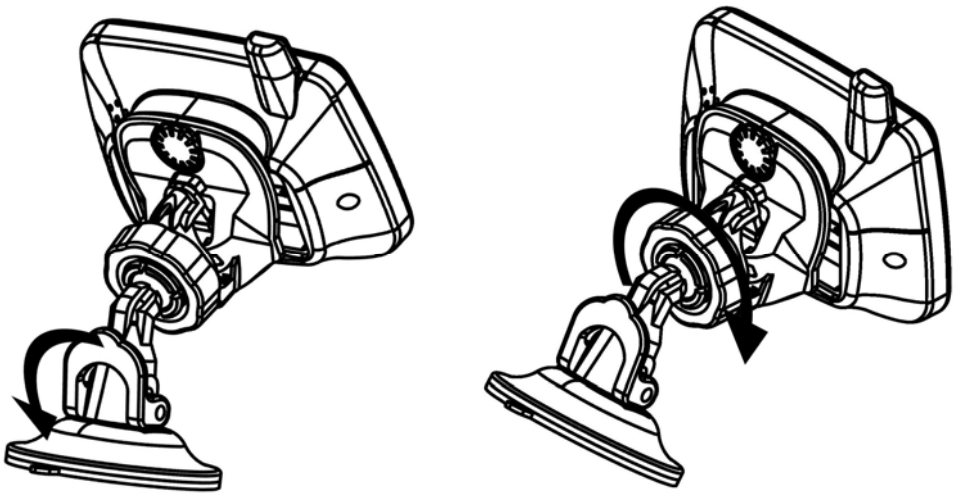
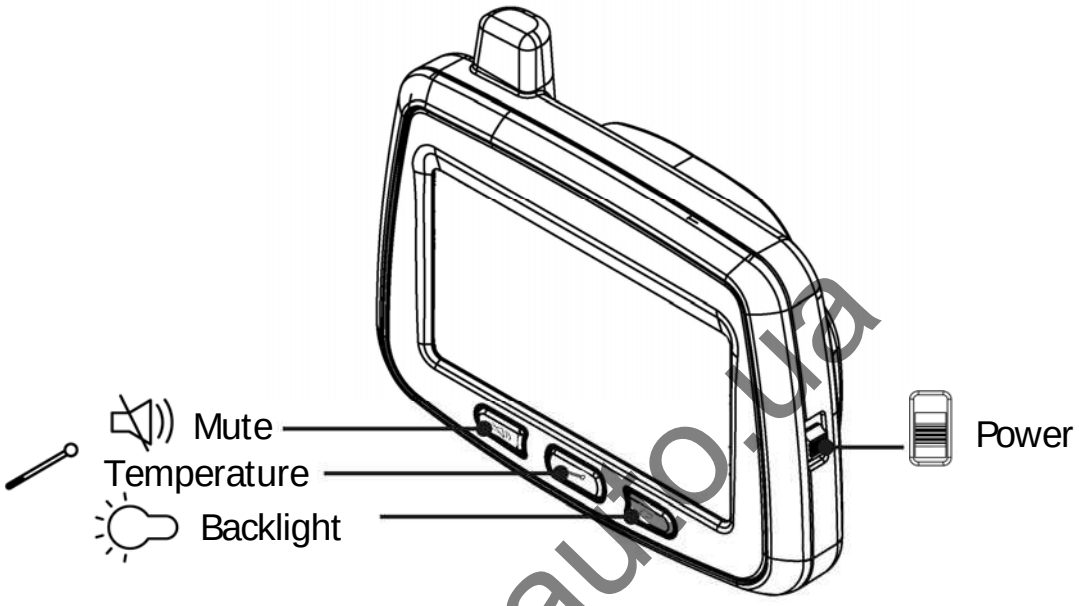
7. Align the Bracket Base to a suitable location on the windscreen.
8. Push down on the base and lower the lever to apply suction.
9. Adjust the angle of the Ball Joint and tighten the Ring to secure.



Operation

Main button locations



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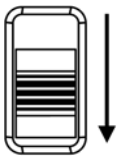
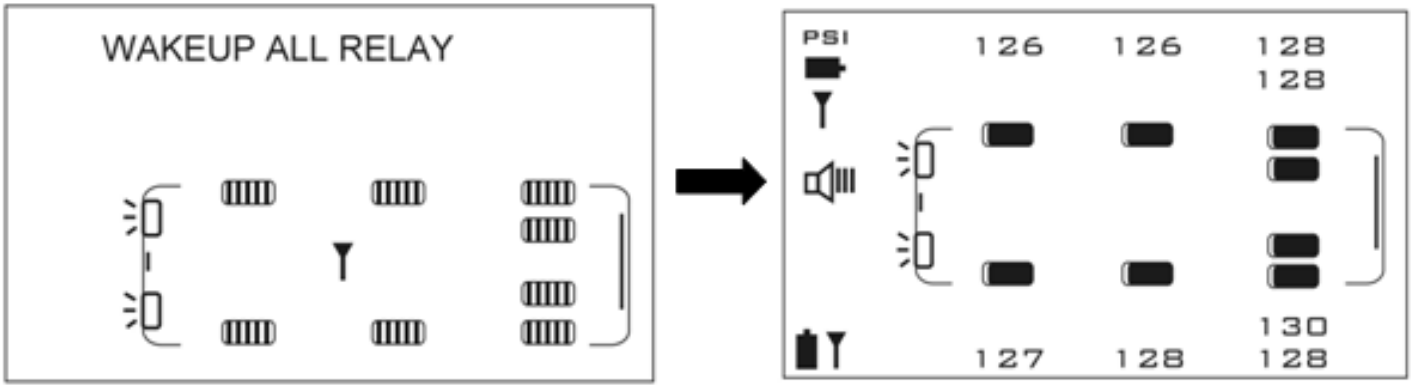
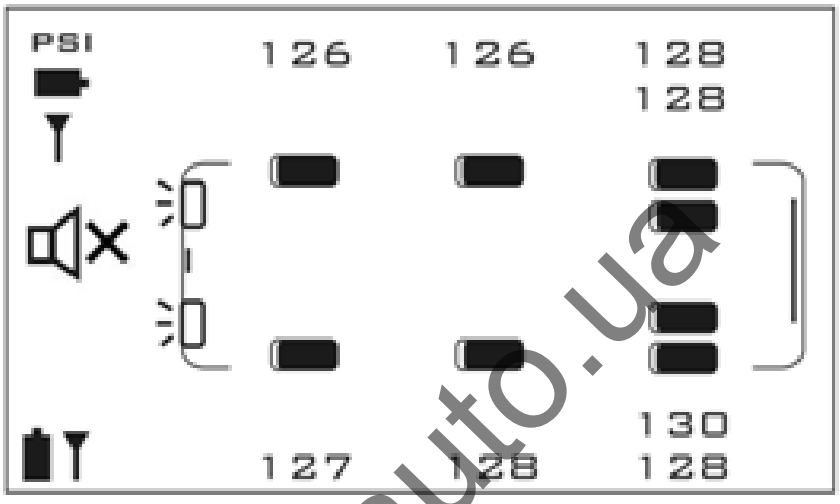
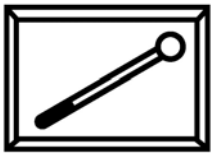
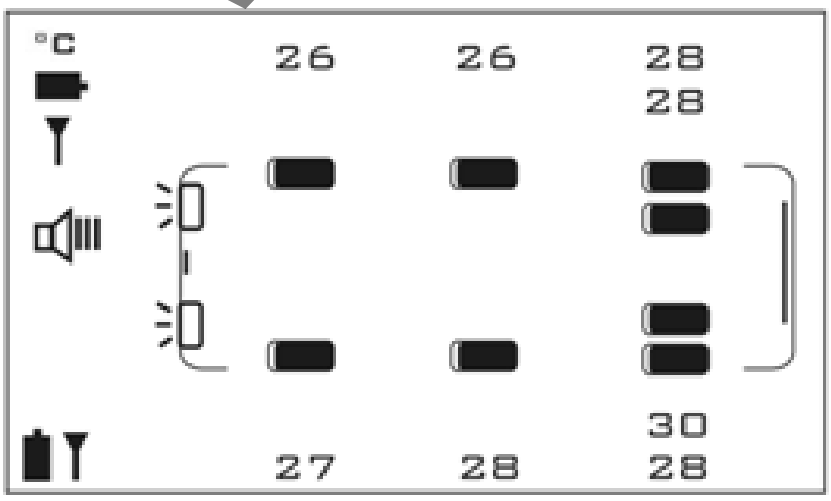
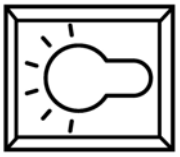
	Power Switch	When the unit is switched on, the boot up screen will be displayed, followed by the CALL RELAY screen, then the home screen.



MAIN BUTTON FUNCTIONS

	Mute	Pressing the mute button will disable all audible warnings. This is indicated by a strike through the speaker icon on the GUI.
		
	Temperature	Pressing the temperature button will display all temperatures for 3 seconds.
		
	Backlight	When on battery power, pressing the backlight button will illuminate the screen for 3 seconds. Note: The screen is constantly illuminated when operating on cigarette lighter power.

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ADVANCED BUTTON FUNCTIONS

The three operation buttons perform different functions throughout the GUI. On all but the home screen, the appropriate function for that menu will be displayed above the corresponding button.

For the next section, a table like below will be noted at the beginning of each menu option's instructions. The table will show the relevant buttons and their function in relation to the option currently being explained.

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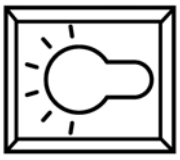
Below is a chart showing each function in the appropriate menu levels.

Settings			
In main screen	MUTE	TEMPERATURE	BACKLIGHT
Settings Menu	NEXT	ESC (escape)	ENTER
CALL RELAY	No function	Cancel Relay Call	No function
CHANGE TRAILER	No function	No function	No function
SET UNIT	NEXT	ADJ (adjust)	ENTER
SET THRESHOLD	NEXT	DEC (decrease)	ADD (increase)
SET CAR TYPE	NEXT	ADJ (adjust)	ENTER
SET RELAY ID	ESC (escape)	FRONT	REAR
SET SENSOR ID	ESC (escape)	No function	No function
CHANGE TR FUNC	NEXT	ESC (escape)	ENTER
ADD/SWP SENSOR	ESC (escape)	INC (increase)	SAVE

ADJUSTING SETTINGS

To enter the settings menu, press and hold ‘Mute’ for more than 7 seconds.
In the settings menu there are 9 options to choose from.

1. CALL RELAY: Synchronise with programmed relay.
2. CHANGE TRAILER: Switch between trailers (refer to trailer manual)
3. SET UNIT: Change the unit of measure for pressure and temperature.
4. SET THRESHOLD: Change the tyre environment warning values.
5. SET CAR TYPE: Change the wheel layout of your specific vehicle.
6. SET RELAY ID: Enter relay ID learning mode.
7. SET SENSOR ID: Enter replacement sensor learning mode.
8. CHANGE TR FUNC: Set trailer function to automatic or manual.

Press MUTE to scroll through the menu options.

Press LIGHT to enter the selected menu option.

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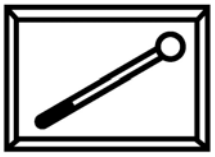
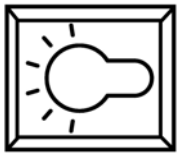
Various adjustments can be made in each of these menu options to customize and optimize the way you use your Tyredog.

When adjustments are completed, you can return to the main settings menu. From there you can make other adjustments if required.

Pressing exit from the main settings menu will restart the unit and return you to the home screen.

1. CALL RELAY – Manually connect to present Relays.

Settings			
SET THRESHOLD	No function	Cancel Relay Call	No function

In the advanced settings menu, highlight ‘CALL RELAY’ and press enter.

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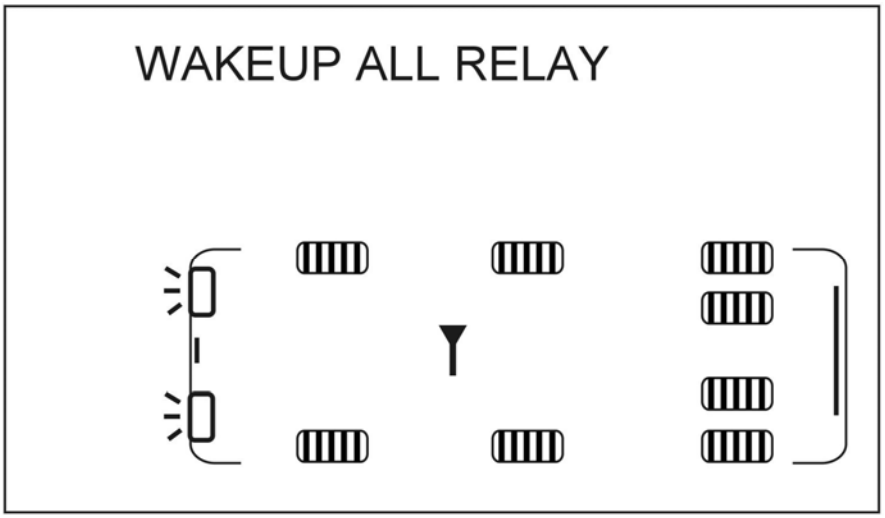
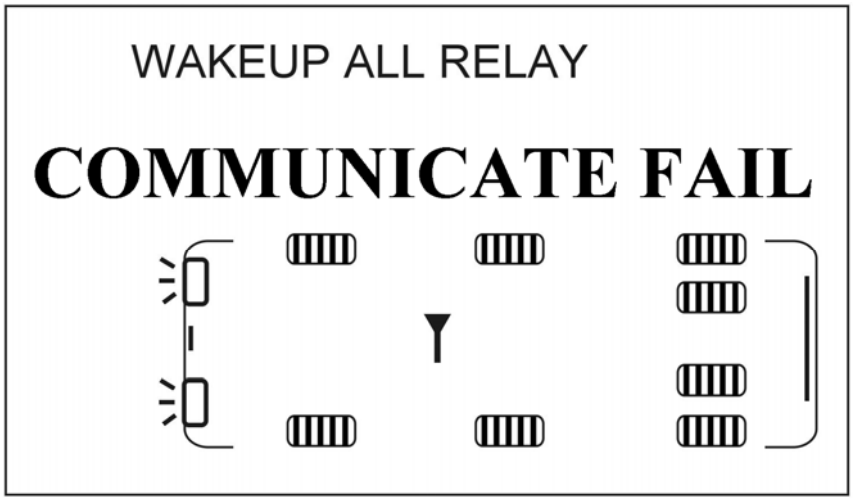
The system will enter the Relay Call Screen and attempt to communicate with the present relay(s).



If successful, the unit will advance to the home screen.

If the Relay Call is unsuccessful, COMMUNICATE FAIL will be displayed.



If a Trailer Relay is programmed, the process will repeat.

If the TEMP button is pressed at any time whilst the Relay Call is in progress, COMMUNICATE FAIL will be displayed, and the Relay Call will be cancelled. To cancel a Trailer Relay call, the TEMP button must be pressed during the Relay Call for the respective Relay.

If the Relay Call is cancelled, or is unsuccessful, the respective Relay will remain disconnected until the unit is restarted, or another Relay Call process is attempted and successful. Trailer Relays will still operate without a Truck Relay being online, and vice-versa.

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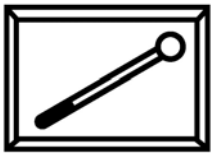
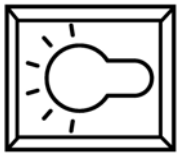
2. CHANGE TRAILER – Alternate between available trailer Relays.

Settings			
SET THRESHOLD	NEXT	DEC (decrease)	ADD (increase)

In the advanced settings menu, highlight ‘SET THRESHOLD’ and press enter.

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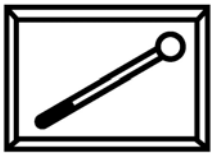
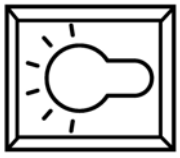
Multiple trailer relays can be used with the truck relay. This option is ideal for use with truck fleets as trailers are used very often. This function is only available when a trailer kit is programmed for use with your TD-2000A and the selected wheel layout requires two relays to be used.

For further instruction regarding programming and alternating between trailer relays, please refer to the user manual supplied in your trailer kit.

For more information, please consult your Tyredog reseller.

3. SET UNIT – Change the units used to display measurements.

Settings			
SET UNIT	NEXT	ADJ (adjust)	ENTER

In the advanced settings menu, highlight ‘SET UNIT’ and press enter.

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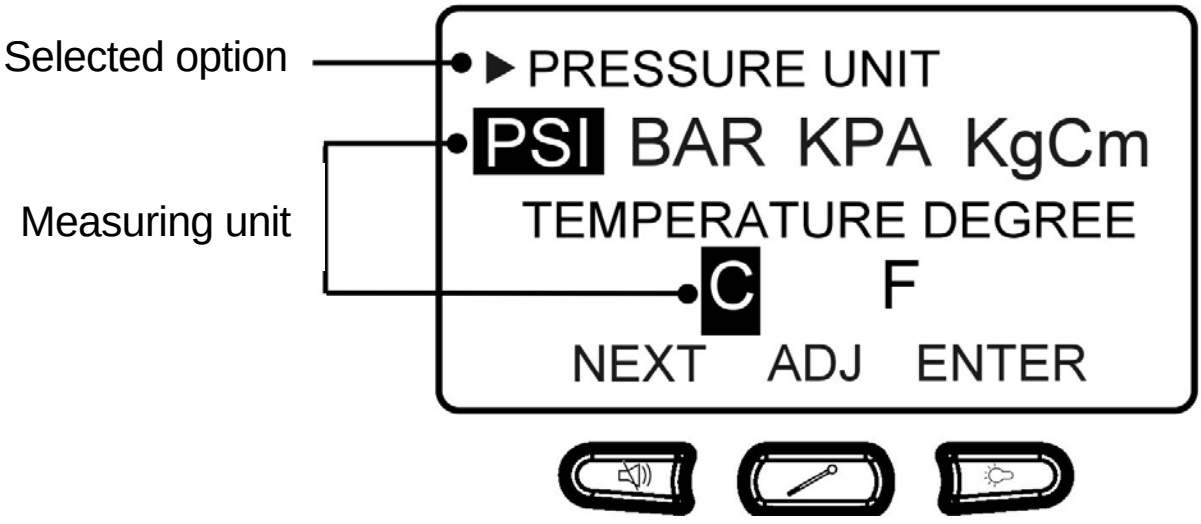
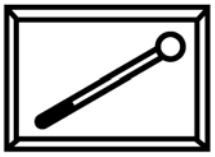
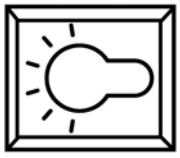
The arrow (▶) symbol will be displayed next to the parameter you wish to change. Press TEMP to move through the available options.



4. SET THRESHOLD – Change the alarm warning levels.

Settings			
SET THRESHOLD	NEXT	DEC (decrease)	ADD (increase)

In the advanced settings menu, highlight ‘SET THRESHOLD’ and press enter.

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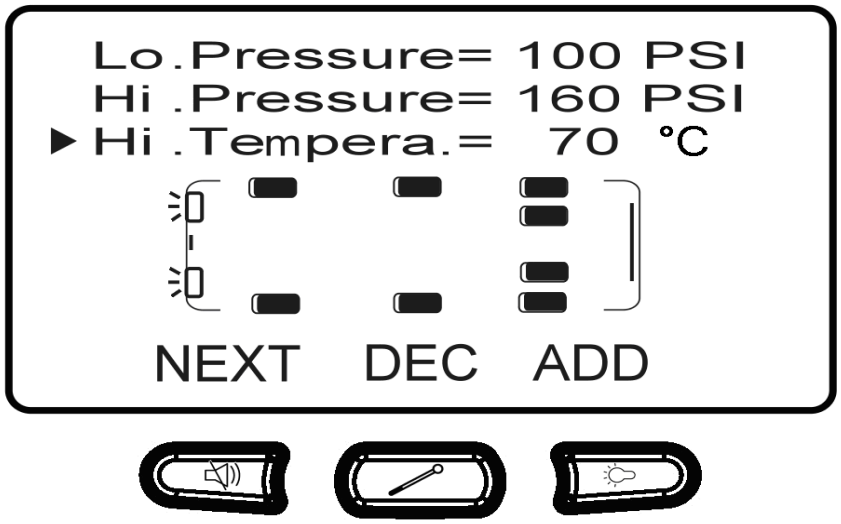
The arrow (►) symbol will be displayed next to the parameter you wish to change. Press TEMP and LIGHT to adjust the selected warning value.

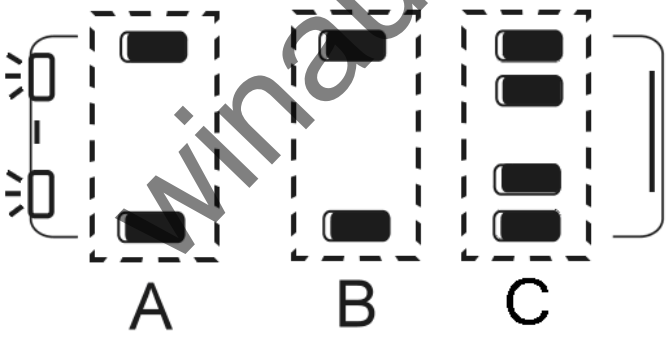
Below are the available values for each setting.

Low Pressure	Min 5.0 PSI – Max 200.0 PSI
High Pressure	Min 20.0 PSI – Max 200.0 PSI
High Temperature	Min -20° C – Max 110° C



As settings are being adjusted, the corresponding axle set will flash. The axles are separated into groups, pressing NEXT after adjusting the Hi Temperature warning will advance to the next axle.

EG:



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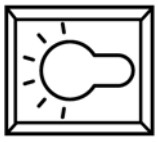
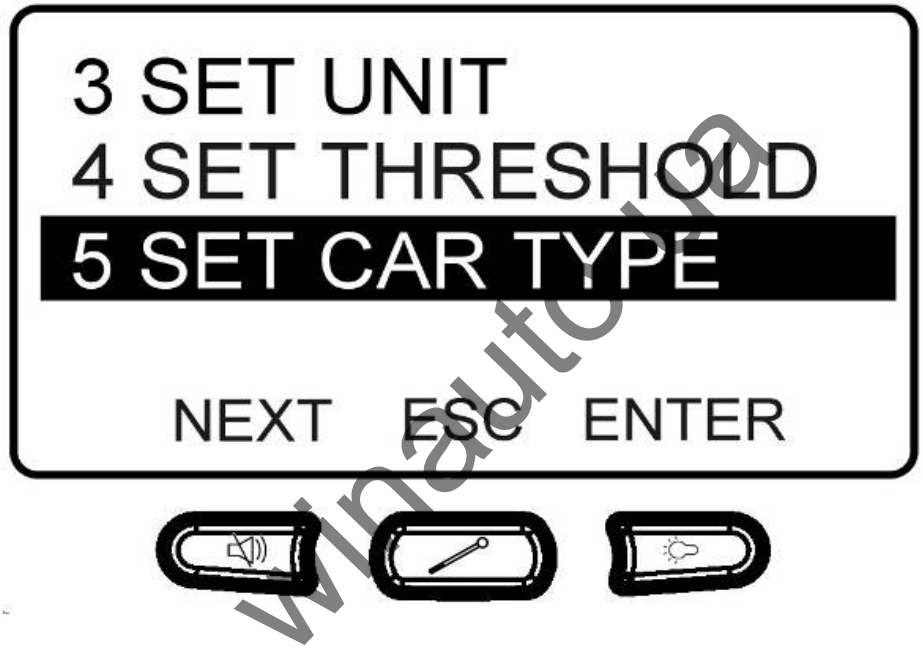
If you wish to have the same values for all wheels, pressing and holding NEXT will enable the unit to make all adjustments within one setting. This mode is indicated by all wheels flashing at once. This is a temporary function and must be activated each time you wish to use it. All adjustments in this mode are performed the same as each axle individually.

When pressing NEXT after the last Hi. Temp. Setting, the monitor will ask if you want to save the settings to the Relay. Pressing YES will advance to the Relay Call screen, and then restart the unit.

5. SET CAR TYPE – Change the layout of your vehicle.

Settings			
SET CAR TYPE	NEXT	ADJUST	ENTER

In the advanced settings menu, highlight ‘SET CAR TYPE’ and press enter.



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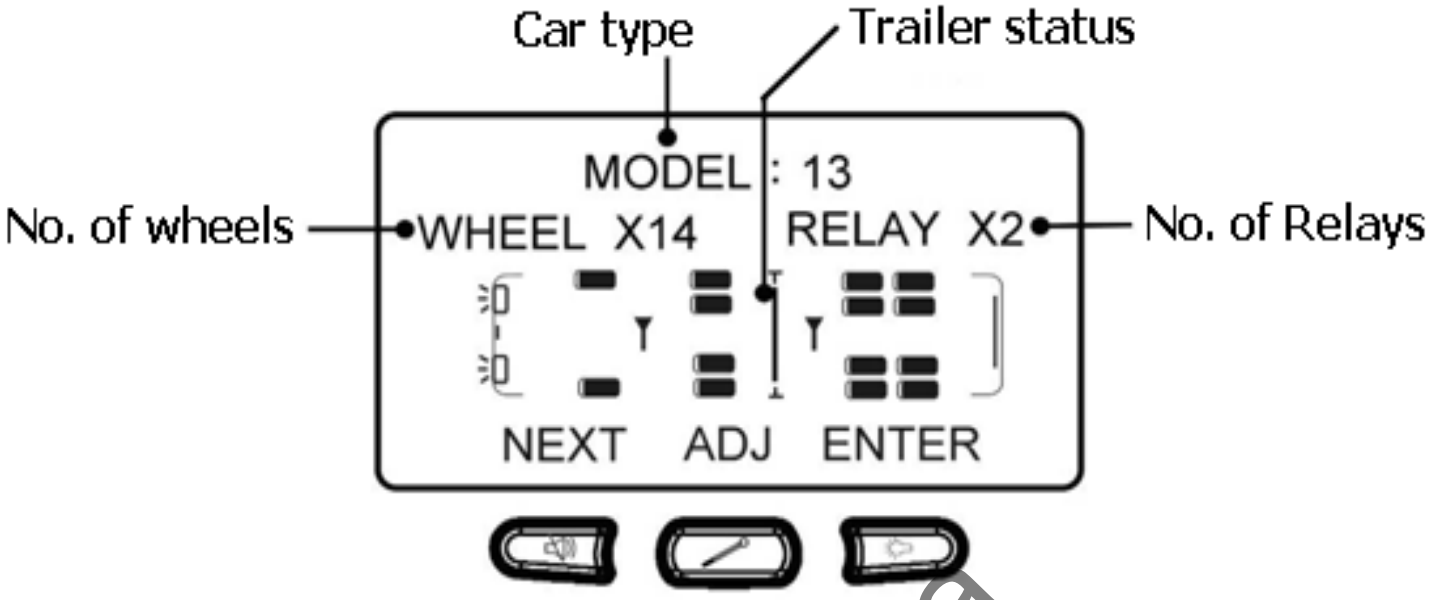
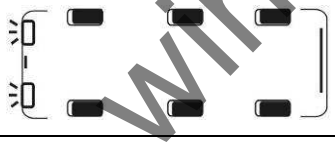
Thirty different wheel layout types can be selected to suit your particular application. Tyres monitored range from 4 to 22 with up to two Relays.

To scroll through the available car types, press the MUTE button. When the option shown on screen matches your desired car layout, press the LIGHT button to accept the change. If the system requires 2 Relays for the chosen layout, a divider will be displayed between the two sets of wheels. Pressing TEMP activates this divider and enables the Change Trailer Function. If the divider is not activated, the wheel set operates as a single vehicle. Please remember that 2 Relays will still be required to operate in this case.



Available wheel layout options:

CAR TYPE	VISUAL LAYOUT	NO. OF WHEELS	NO. OF RELAYS	TRAILER Y/N
1		4	1	N
2		6	1	N
3		6	1	N
4		8	1	N
5		8	1	N
6		10	1	N
7		8	1	Y

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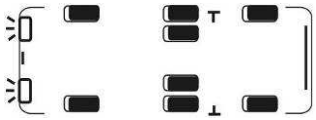
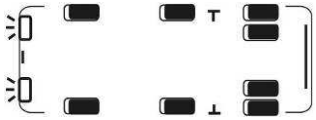
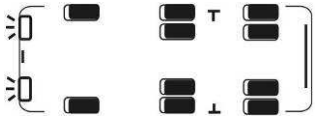
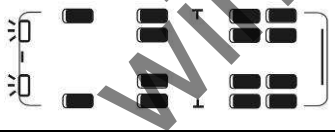
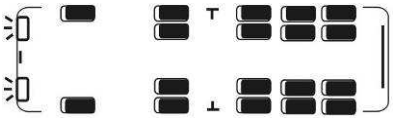
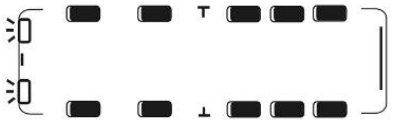
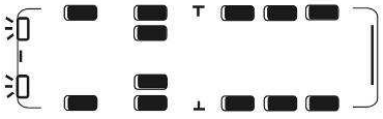
8		10	1	Y
9		8	2	Y
10		8	2	Y
11		10	2	Y
12		14	2	Y
13		12	2	Y
14		12	2	Y
15		14	2	Y
16		12	2	Y
17		12	2	Y
18		18	2	Y
19		10	2	Y
20		12	2	Y

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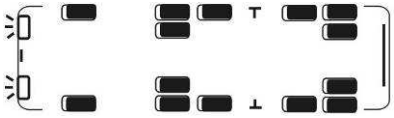
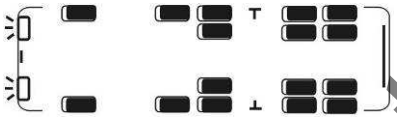
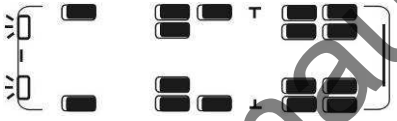
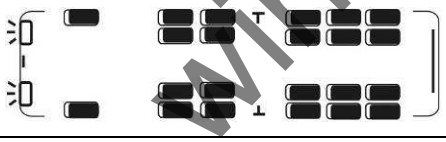
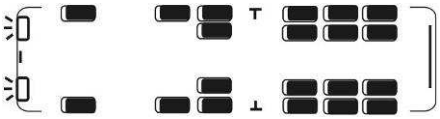
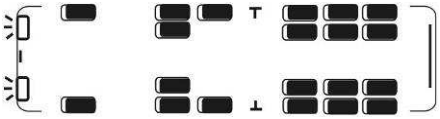
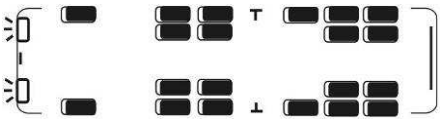
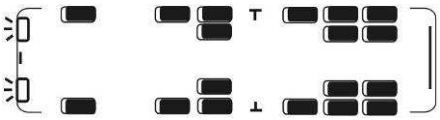
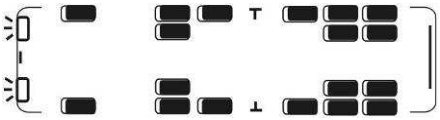
21		16	2	Y
22		16	2	Y
23		14	2	Y
24		14	2	Y
25		18	2	Y
26		16	2	Y
27		16	2	Y
28		22	2	Y
29		20	2	Y
30		20	2	Y
31		20	2	Y
32		18	2	Y
33		18	2	Y

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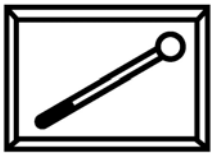
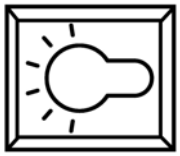
6. SET RELAY ID – Relay Code Learning Mode.

Settings			
SET RELAY ID	ESC (escape)	FRONT	REAR

In the advanced settings menu, highlight ‘SET RELAY ID’ and press enter.

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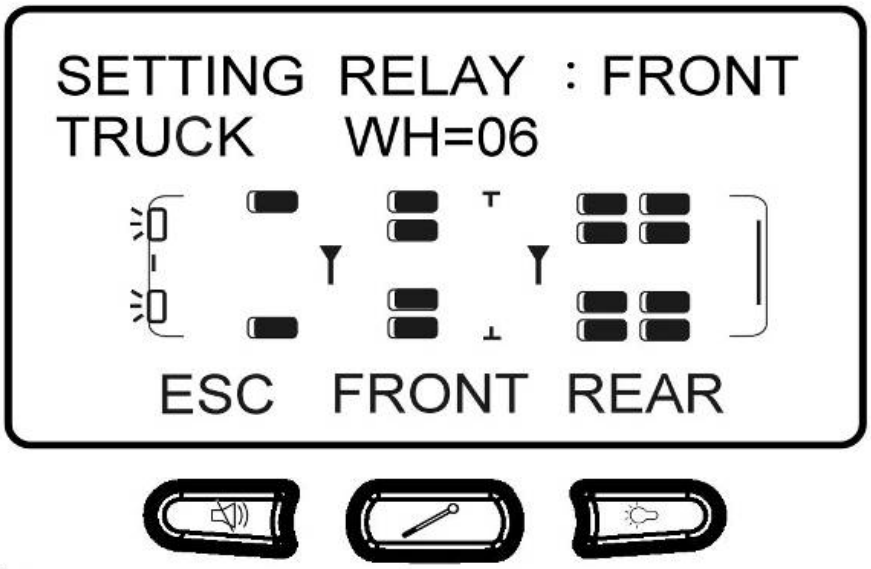
The SET RELAY ID screen will display the current car type. If the car type uses a single relay, only the MUTE button will be functional on screen. If the car type uses two relays, the TEMP and LIGHT buttons are activated to alternate between the relay locations being learned; FRONT or REAR.



Once the Relay location is selected, press the SYNC button on the Relay you wish to program into that location. When the monitor has learned the code from the Relay, it will beep and then begin a Relay Call.

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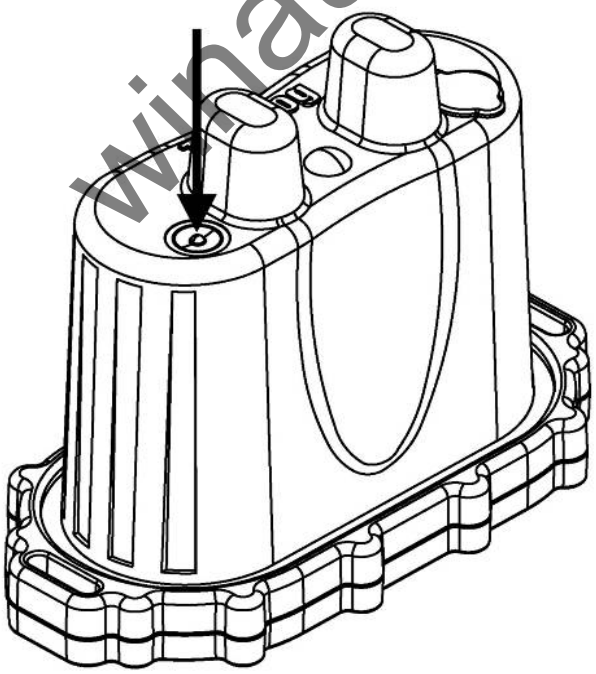
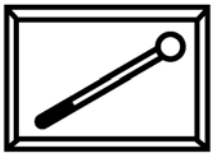
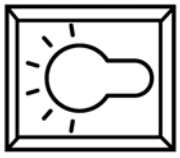


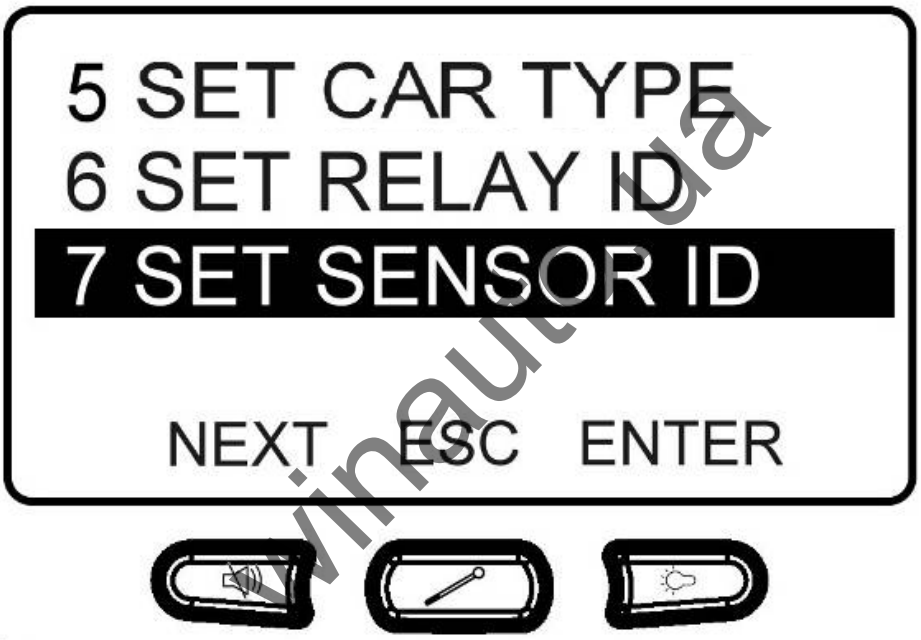
Once the Relay Call is successful, the unit will return to the SET RELAY ID screen. From here you can either set another relay (if applicable) or exit to the main menu.

NOTE: A Relay can NOT be stored in both front and rear locations.

7. SET SENSOR ID – Replacement Sensor Learning Mode.

Settings			
SET RELAY ID	ESC (escape)	No Function	No Function

In the advanced settings menu, highlight ‘SET SENSOR ID’ and press enter.



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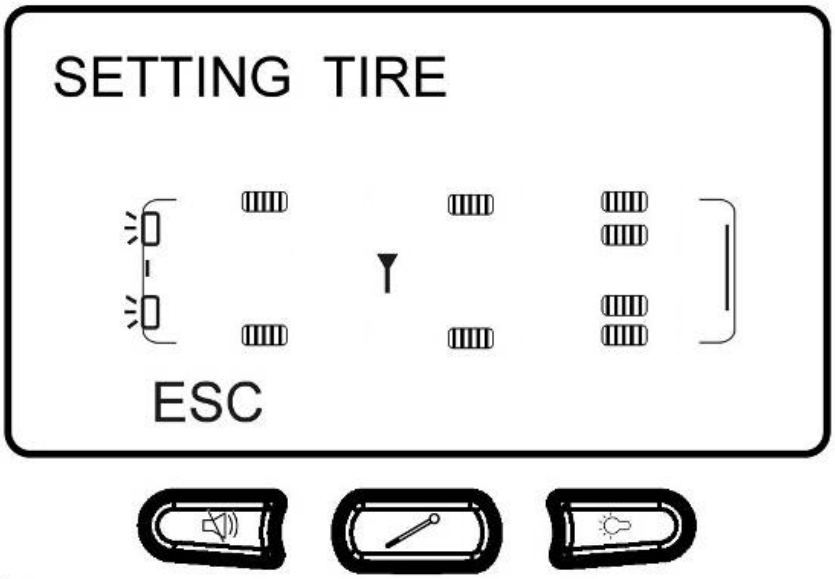
This feature is used to program ‘Learnable’ replacement sensors in the event that one or more of the original sensors are damaged or stolen.

As with the original Tyredog sensors, all ‘learnable’ sensors are numbered. Replacement sensors are designed only to replace originals of the same number. IE, if your number 2 sensor is damaged, it can only be replaced by a number 2 Learnable sensor. If the wrong sensor is programmed, the original sensor of that location will be permanently deleted from the Relay memory.

Always be sure to request the correct number sensor.



Press the ‘SYNC BUTTON’ on the Relay you wish to program the sensor(s) to.

The L.E.D. will illuminate and the relay location will be displayed on the screen.

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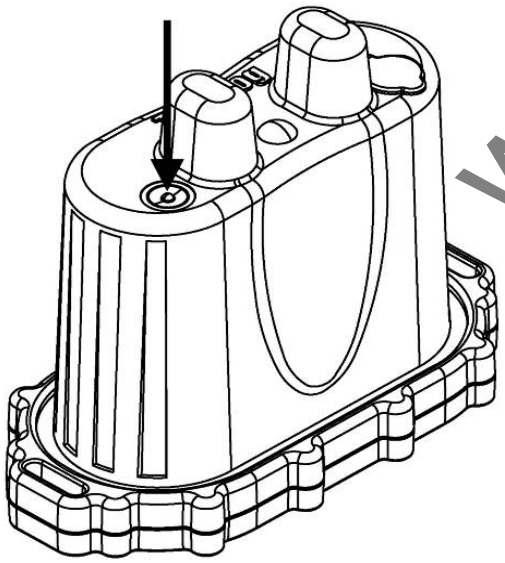

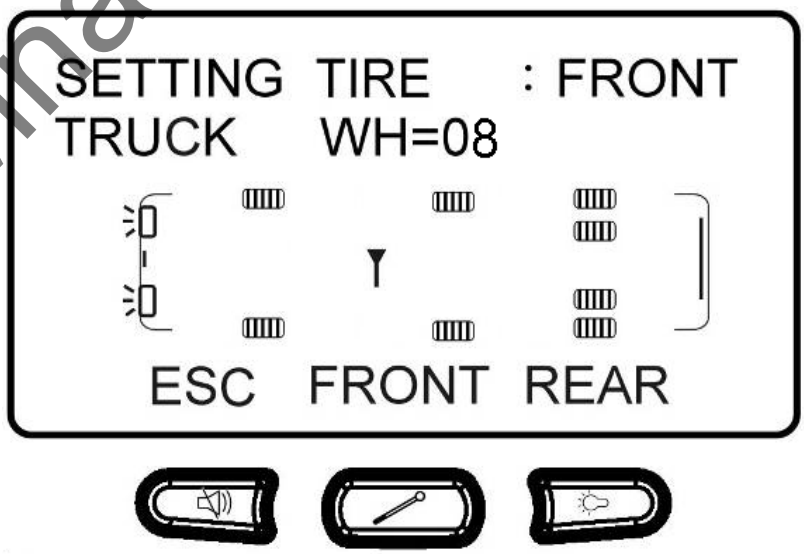

The L.E.D. will illuminate meaning the Relay is ready to learn the sensor code.

Insert the supplied CR1632 battery into your new ‘learnable sensor,’ the corresponding tyre icon will flash and the monitor will beep. Repeat this step for any additional sensors you may wish to program.

Programming additional sensors

The TD-2000A system can be upgraded to monitor more sensors than it was originally supplied with. These instructions must be strictly adhered to ensure correct programming of the new sensors.

Using the SET CAR TYPE function (p32) set your desired car layout. This layout must use the exact number of sensors you wish to run. For example, when upgrading an 8 wheel system to a 10 wheel system, the new chosen layout must consist of 10 wheels.

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Relays can be programmed with a maximum of 12 sensors.

When this setting is confirmed, the car type will be programmed into the relay.

Now using the SET RELAY ID function (p36) the Relay Code must be re-learnt to ensure correct synchronization between the relay and monitor.

Press the SYNC button on the Relay to confirm to the monitor that the Relay is operating in the correct wheel layout.

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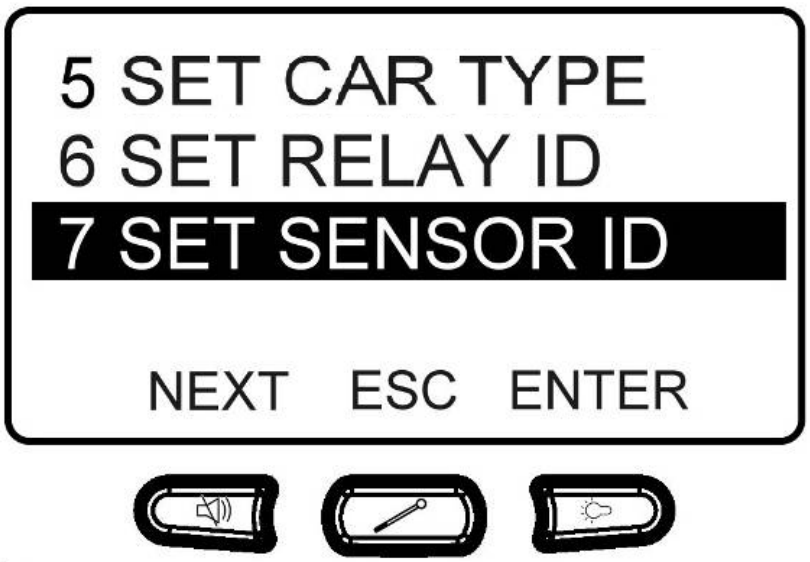
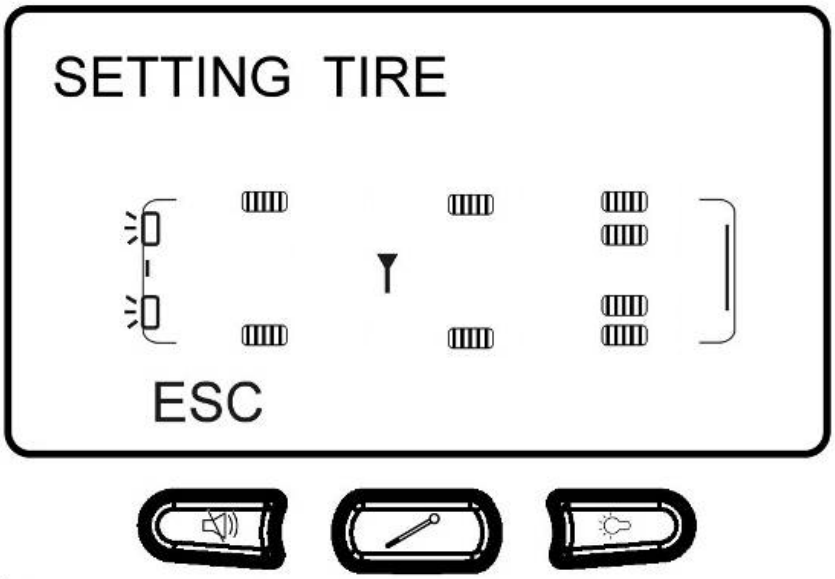
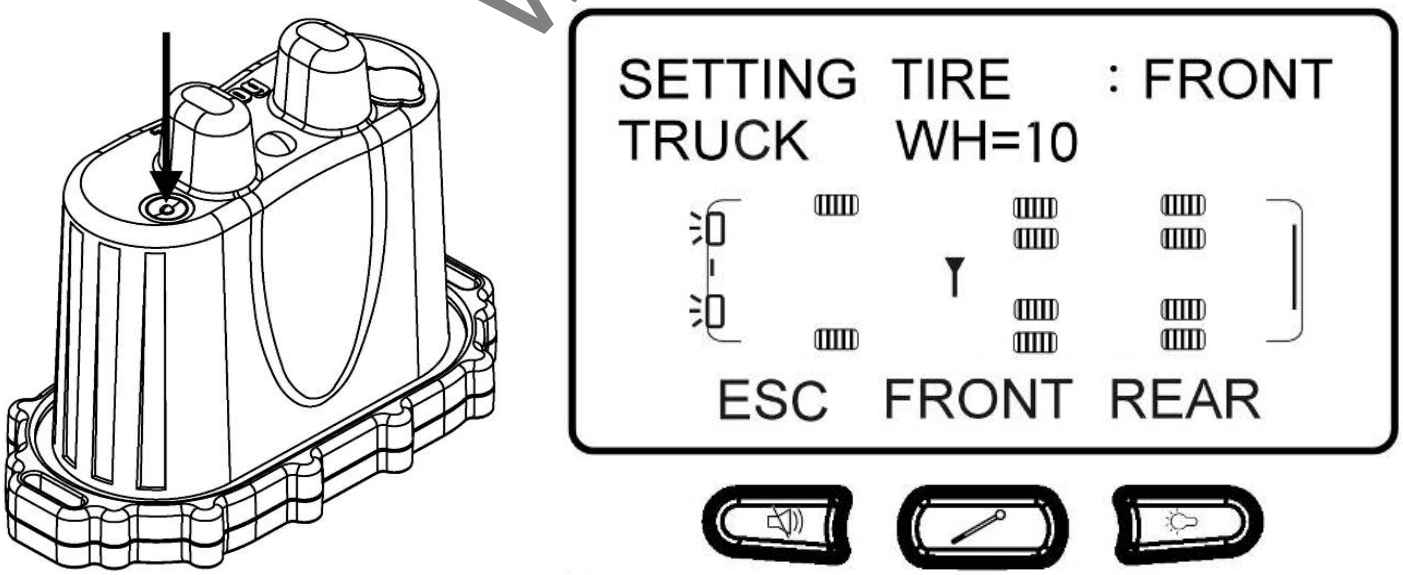
Using the SET SENSOR ID function (p38) you can now program any addition sensors providing they are applicable to the previously chosen layout.





Pressing the ‘SYNC BUTTON’ on the Relay will ‘Activate’ it as the receiving relay for the new sensors. If you wish to add sensors to an additional relay (such as a trailer relay), be sure to program ALL sensors to the first relay before activating the next.

The L.E.D. will illuminate and the relay location will be displayed on the screen.



Insert the supplied batteries into the Learnable Sensors, the corresponding tyre icon will flash and the monitor will beep. Once all new Sensors are programmed and confirmed, press esc to return to the main menu.

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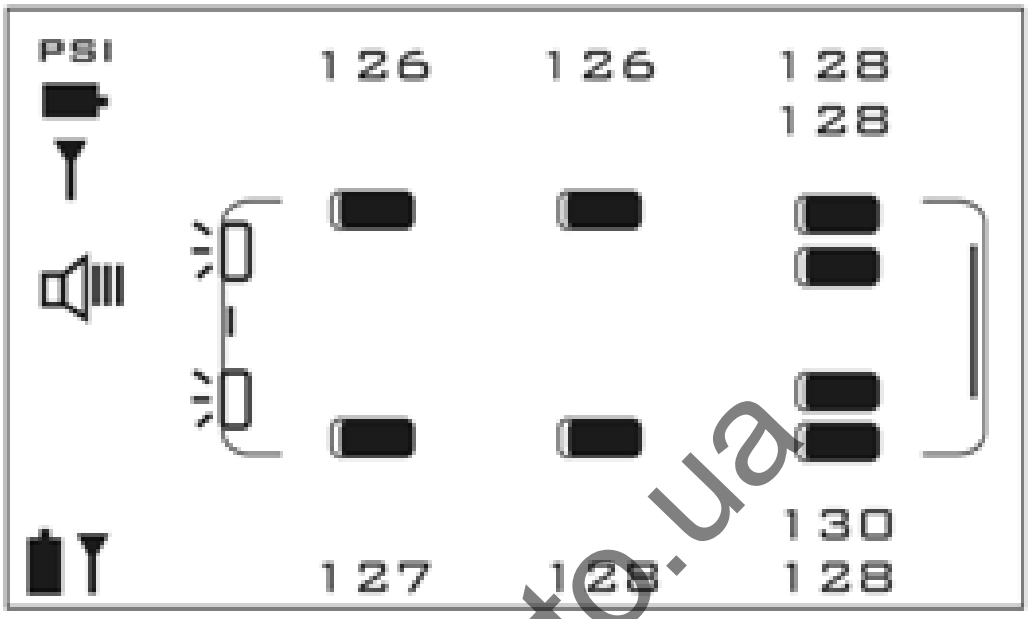
ADVANCED FUNCTIONS

Initialization



After powering up, the system will run the initial relay call. This will take around 10 seconds depending how many relays and sensors are operating. The most recent figures will be shown on screen until the unit receives all sensor updates. Any change in pressure or temperature will force that sensor to send an update. If there is no change, or the monitor is turned on after a change occurs, sensors will send a blank update every 10-15 minutes. (This length has been chosen solely to conserve battery power)

Automatic shut down.

The TD-2000A is equipped with a vibration sensor. If the unit is still for more than 15 minutes, it will automatically shut down to conserve battery power. Any vibrations such as opening the car door or starting the engine will power the unit back up immediately. When powering back up, the unit will continue to function as if it were powered up normally.

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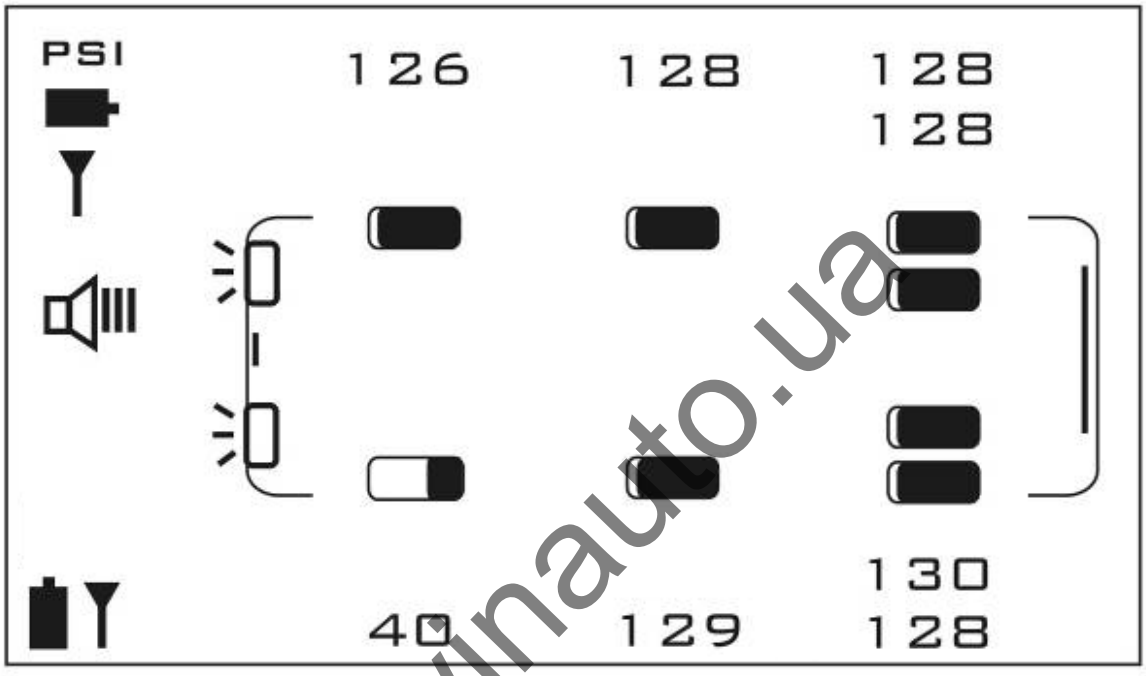
Low Pressure Warning

If a tyre's pressure falls below the Low Pressure Warning value, the monitor will beep three times and the low pressure tyre icon will be shown.



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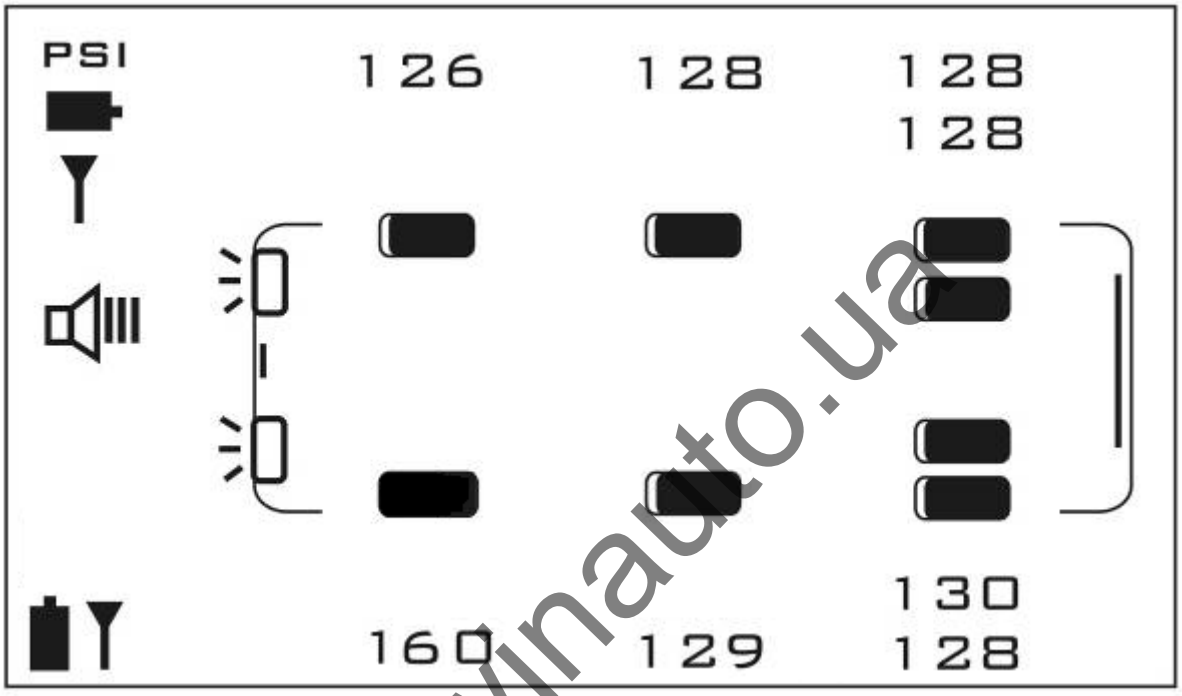
If the tyre pressure continues to drop, the monitor will repeat the warning for every 1psi drop in value. If and when the tyre pressure returns to a normal state, the unit will stop the alarm.

Note : Never ignore a low pressure warning.

If a low pressure warning sounds, safely pull over and check your tyres for irregularities or damage.

High Pressure Warning

If a tyre's pressure rises above the High Pressure Warning value, the monitor will beep three times and the high pressure tyre icon will be shown.



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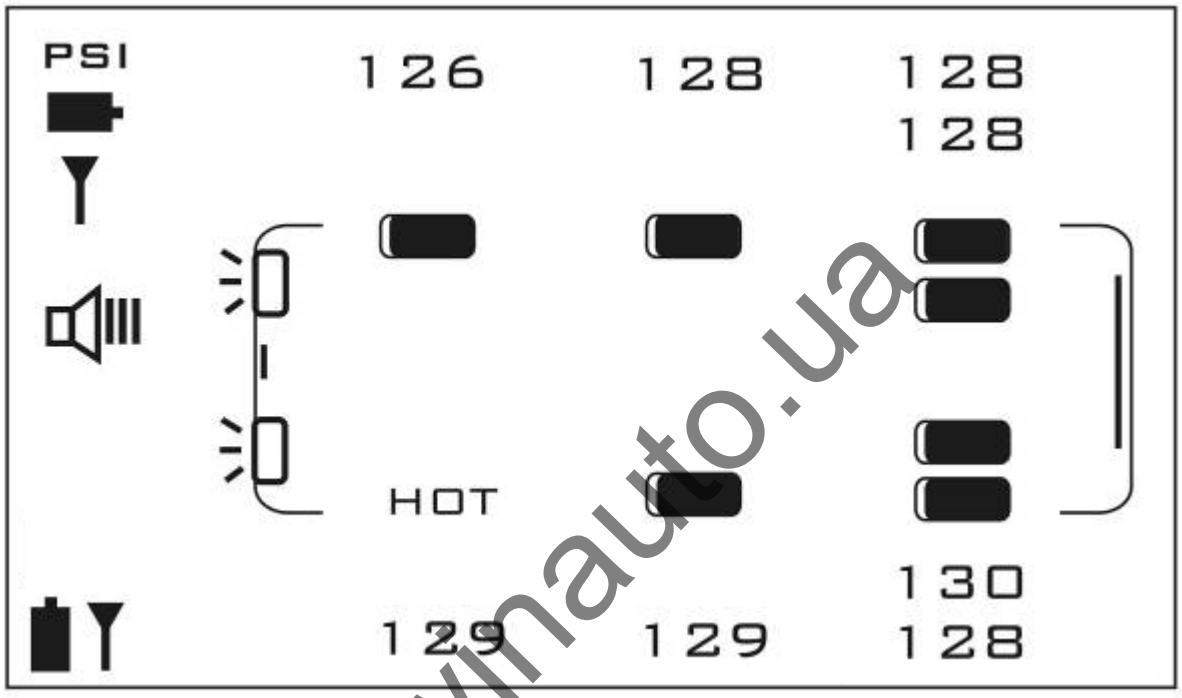
If the tyre pressure continues to rise, the monitor will repeat the warning for every 1psi rise in value. If and when the tyre pressure returns to a normal state, the unit will stop the alarm.

Note : Never ignore a high pressure warning.

If a high pressure warning sounds, safely pull over and check your tyres for irregularities or damage.

High Temperature Warning

If a tyre's temperature rises above the High Temperature Warning value, the monitor will beep three times and the high temperature tyre icon will be shown.



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If the temperature continues to rise, the monitor will repeat the warning for every 1degree rise in value. If and when the tyre temperature returns to a normal state, the unit will stop the alarm.

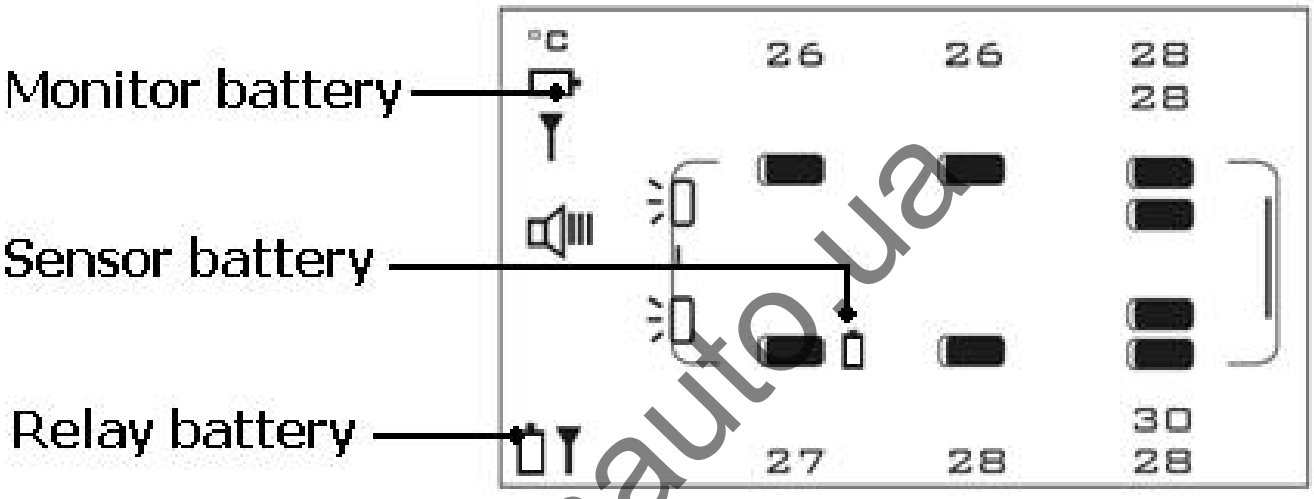
Note : Never ignore a high temperature warning.

If a high temperature warning sounds, safely pull over and check your tyres for irregularities or damage.

Battery Information

Low Batteries

When the monitor, relay or sensor batteries are low, the low battery icons will appear on the GUI to remind the user that the corresponding batteries will need to be replaced soon.



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Under normal conditions, sensor batteries will last approximately 12 months. Depending on operation conditions and frequency of use, battery life can be shorter or longer.

The low battery icon indicates there is approximately 1 week of battery life remaining. This should be enough time to purchase new batteries.

Note: Batteries should be replaced as soon as possible to ensure safe and efficient functionality of the system.

CR1632 batteries are available for purchase from your nearest Tyredog reseller, electronics or battery specialists.

Notes on batteries

- Keep lithium batteries out of reach of children.
- Should a battery be swallowed, immediately consult a doctor.
- Wipe the battery with dry cloth to ensure a good contact.
- Always be sure of correct polarity when installing batteries.
- Observed the expiry date on old batteries.
- Batteries may explode if shorted or mistreated.
- Do not charge non-rechargeable batteries.
- Do not attempt to disassemble batteries.
- Never dispose of batteries in fire.

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Battery Types.

Monitor	2x ‘AA’ (LR6) 1.5volts
Relay	4x ‘AA’ (LR6) 1.5volts
Sensors	1x ‘CR1632’ (Lithium) 3volts

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Troubleshooting

- If any sensors are failing to give a reading;
    - Turn the monitor off.
    - Remove batteries from all sensors.
    - Remove all sensors from valves.
    - Turn the monitor back on.
    - Insert batteries into sensors one by one.
    - Fit sensors to valves one by one.

As each sensor is fitted, the current pressure reading will be displayed. Synchronization issues can occur when the sensors are initially powered up before the monitor is turned on, or if the sensors are powered up whilst installed on the valve caps.

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- If the Relay connection is lost;
    - Ensure there is power at the Relay plug,
    - Or ensure the batteries are charged.
    - Turn the monitor off.
    - Remove power from the relay, the reconnect.
    - The red LED will illuminate to confirm power up.
    - Turn the monitor back on.
    - Enter the settings menu and highlight SET RELAY ID.
    - Press enter, and then press the SYNC button on the Relay.
    - The monitor will beep to confirm the ID is set.
    - Upon exiting the menu, the monitor will automatically perform a relay call. If successful, the system will operate as normal.

It is normal for the screen to turn dark after extended exposure to sunlight.

Always be aware that heat and extended driving periods can greatly alter tyre pressure and drivability.

If you feel your system has a fault which cannot be rectified by this procedure, please contact your Tyredog dealer.

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Product specification

Sensor Specification	
Frequency	315MHz
Pressure range	0-180 PSI
Accuracy	Pressure: ±3 PSI – Temp: ±2 Degrees Celsius
Operating voltage	3 Volts DC
Operating temperature	-40~125 Degrees Celsius
Battery life	Approx. 12 months (depending on daily operation time)
Dimensions	20.5mm Diameter x 20mm Height
Weight	10 g (±1)
Monitor Specification	
Frequency	433.92MHz
Operating voltage	3 Volts DC (batteries) 6-24 Volts DC (
Battery life	6 months (depending on daily operation time)
Operating temperature	-20~80 Degrees Celsius
Dimensions	Length 102mm X width 72mm X height 29mm
Weight	143 g
Relay Specification	
Frequency	433.92MHz (TX) 315MHz (RX)
Operating voltage	6 Volts DC (Battery) 6-24 Volts DC (Supply)
Operating temperature	-40~85 Degrees Celsius
Battery life	12 months (depending on daily operation time)
Dimensions	Length 105mm X width 50mm X height 85mm

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Specifications are correct at time of publication. Subject to change without notice.

Quick Reference Chart

Model / Application	2 Wheels	4 Wheels		5 Wheels	6 Wheels			8 Wheels			10 Wheels
	Motorcycle	OR Car / 4WD	Heavy Duty	or Car / 4WD	+ Car and Trailer or Caravan	or Light Duty Ute or Van	or or Bus / Truck Motorhome	+ Car and Trailer	+ Car and Caravan	or or Bus / Truck Motorhome	or or Bus / Truck Motorhome
TD-4000A-X	√	-	-	-	-	-	-	-	-	-	-
TD-1000A-X	-	√	-	-	-	-	-	-	-	-	-
TD-1300A-X	-	-	-	√	-	-	-	-	-	-	-
TD-2000A-X04-R	-	-	√	-	-	-	-	-	-	-	-
TD-2000A-X06-R	-	-	-			√	√	-	-	-	-
TD-2000A-X08-R	-	-	-	-	-	-	-	√	√	√	-
TD-2000A-X10-R	-	-	-	-	-	-	-	-	-	-	√

Units with relay / repeater (For use with Car and Trailer / Caravans, Motor Homes, Trucks and Buses)

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1 Year Product Warranty

Zylux Distribution Pty. Ltd. warrants to the Customer that this product is substantially free from defects in materials and workmanship under normal use for a period of 1 Year from the Date of Purchase. (Excl. Batteries)
Please ensure you keep a copy of your receipt on file as this will be required for proof of purchase and to validate your warranty.

Obtaining Warranty Service
Within the warranty period, the Customer must contact the authorised supplier / retailer where the product was purchased or alternatively you can contact the Zylux (Tyredog) service centre through one of the following methods:
Hotline: (03) 9482 2203
Website: www.zylux.com.au

If the Authorised Supplier and / or Zylux (Tyredog) service centre concludes that while under normal use, a product failure or malfunction occurred during the warranty period and was caused by a defect in material or workmanship (see Exclusions), the Customer will be asked to ship to the nearest service point. The product must be packaged appropriately for safe shipment. To prove that the product is under warranty, the customer should enclose a copy of their receipt for proof of purchase. It is recommended that returned products be sent by registered mail as Zylux Distribution Pty Ltd. accepts no responsibility / liability for goods lost or damaged in transit. Return Shipping costs to be incurred by the Customer.

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Exclusions
If upon receiving a product for repair and if testing and examining the product has disclosed that the alleged defect or malfunction in the product does not exist or was caused by the Customer or any third persons misuse, physical abuse, water damage, unauthorised attempts to open, repair or modify the product or improper installation, this will not be covered under this warranty.

This Warranty is void if:
1. The product has been tampered or repaired by unauthorised personnel.
2. The warranty seal is broken or altered.
3. The warranty period has expired.

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ZYLUX DISTRIBUTION PTY. LTD.
166 Christmas Street, Fairfield, Vic, 3078
Website: www.zylux.com.au
Email: info@zylux.com.au
Tel: (03) 9482 2203